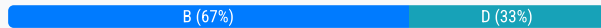A software engineer needs to transfer data over the internet using programmatic access while also being able to query the data. Which of the following will best help the engineer to complete this task?

A. SQL

B. Web sockets

C. RPC

D. GraphQL

Correct Answer: *D*

Community vote distribution

B (67%)   D (33%)

JalimRabeiBR 1 month, 3 weeks ago

Selected Answer: B

WebSockets are a communication technology that enables real-time data exchange between a client (such as a web browser) and a server. Unlike the traditional request-response model of HTTP, WebSockets establish a persistent connection, allowing the server to send data to the client at any time, without the client having to make a request.

upvoted 2 times

mquinnjr001 4 months, 3 weeks ago

Selected Answer: D

I think I got maybe 2 questions from this list on the exam? Nothing else was on it.

upvoted 1 times

damethedeer 1 month ago

What did you use to study?

upvoted 1 times

Which of the following is a field of computer science that enables computers to identify and understand objects and people in images and videos?

    A. Image reconstruction

    B. Facial recognition

    C. Natural language processing

    D. Computer vision

Correct Answer: *D*

Community vote distribution

D (100%)

  JalimRabeiBR 1 month, 3 weeks ago

Selected Answer: D

Computer vision is a subfield of artificial intelligence (AI) that focuses on enabling computers to "see" and interpret visual information from the world around them.

It involves developing algorithms and techniques that allow computers to extract meaningful information from digital images and videos.

This includes tasks such as:

Image classification: Categorizing images into predefined classes.

Object detection: Locating and identifying objects within images or videos.

Object tracking: Following the movement of objects over time.

Image segmentation: Dividing an image into meaningful regions.

Facial recognition: Identifying individuals from images or videos.

  upvoted 1 times

A company needs to deploy its own code directly in the cloud without provisioning additional infrastructure. Which of the following is the best cloud service model for the company to use?

A. PaaS

B. SaaS

C. IaaS

D. XaaS

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A company just learned that the data in its object storage was accessed by an unauthorized party. Which of the following should the company have done to make the data unusable?

A. The company should have switched from object storage to file storage.

B. The company should have hashed the data.

C. The company should have changed the file access permissions.

D. The company should have encrypted the data at rest.

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A customer relationship management application, which is hosted in a public cloud IaaS network, is vulnerable to a remote command execution vulnerability. Which of the following is the best solution for the security engineer to implement to prevent the application from being exploited by basic attacks?

A. IPS

B. ACL

C. DLP

D. WAF

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Which of the following is a difference between a SAN and a NAS?

A. A SAN works only with fiber-based networks.

B. A SAN works with any Ethernet-based network.

C. A NAS uses a faster protocol than a SAN.

D. A NAS uses a slower protocol than a SAN.

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A cloud engineer is troubleshooting an application that consumes multiple third-party REST APIs. The application is randomly experiencing high latency. Which of the following would best help determine the source of the latency?

A. Configuring centralized logging to analyze HTTP requests

B. Running a flow log on the network to analyze the packets

C. Configuring an API gateway to track all incoming requests

D. Enabling tracing to detect HTTP response times and codes

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A cloud engineer is reviewing the following Dockerfile to deploy a Python web application:

```
FROM cgr.dev/chainguard/python:latest
WORKDIR /myapp
COPY main.py ./
ENTRYPOINT ["python", "/myapp/main.py"]
```

Which of the following changes should the engineer make to the file to improve container security?

    A. Add the instruction USER nonroot.

    B. Change the version from latest to 3.11.

    C. Remove the ENTRYPOINT instruction.

    D. Ensure myapp/main/py is owned by root.

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A group of cloud administrators frequently uses the same deployment template to recreate a cloud-based development environment. The administrators are unable to go back and review the history of changes they have made to the template. Which of the following cloud resource deployment concepts should the administrator start using?

    A. Drift detection

    B. Repeatability

    C. Documentation

    D. Versioning

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A government agency in the public sector is considering a migration from on premises to the cloud. Which of the following are the most important considerations for this cloud migration? (Choose two.)

    A. Compliance

    B. IaaS vs. SaaS

    C. Firewall capabilities

    D. Regulatory

    E. Implementation timeline

    F. Service availability

Correct Answer: *AD*

Currently there are no comments in this discussion, be the first to comment!

Question #11

Topic 1

A company wants to optimize cloud resources and lower the overhead caused by managing multiple operating systems. Which of the following compute resources would be best to help to achieve this goal?

A. VM

B. Containers

C. Remote desktops

D. Bare-metal servers

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

    A. Cryptojacking

    B. Human error

    C. DDos

    D. Phishing

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Which of the following migration types is best to use when migrating a highly available application, which is normally hosted on a local VM cluster, for usage with an external user population?

A. Cloud to on-premises

B. Cloud to cloud

C. On-premises to cloud

D. On-premises to on-premises

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A cloud architect attempts to modify a protected branch but is unable to do so. The architect receives an error indicating the action cannot be completed. Which of the following should the architect try instead?

A. Adding a new remote

B. Creating a pull request

C. Merging the branch

D. Rebasing the branch

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Which of the following container storage types loses data after a restart?

A. Object

B. Persistent volume

C. Ephemeral

D. Block

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Which of the following container storage types loses data after a restart?

A. Object

B. Persistent volume

C. Ephemeral

D. Block

A developer is testing code that will be used to deploy a web farm in a public cloud. The main code block is a function to create a load balancer and a loop to create 1,000 web servers, as shown below:

```
my_load_balancer()
for x in range(1000):
    my_web_server()
```

The developer runs the code against the company's cloud account and observes that the load balancer is successfully created, but only 100 web servers have been created. Which of the following should the developer do to fix this issue?

    A. Request an increase of instance quota.

    B. Run the code multiple times until all servers are created.

    C. Check the my_web_server () function to ensure itis using the right credentials.

    D. Place the my_load_balancer () function after the loop.

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Following a ransomware attack, the legal department at a company instructs the IT administrator to store the data from the affected virtual machines for a minimum of one year.
Which of the following is this an example of?

A. Recoverability

B. Retention

C. Encryption

D. Integrity

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

An engineer made a change to an application and needs to select a deployment strategy that meets the following requirements:

Is simple and fast -
Can be performed on two identical platforms
Which of the following strategies should the engineer use?

    A. Blue-green

    B. Canary

    C. Rolling

    D. In-place

Correct Answer: A

Currently there are no comments in this discussion, be the first to comment!

An organization needs to retain its data for compliance reasons but only when required. Which of the following would be the most cost-effective type of tiered storage?

A. Warm

B. Hot

C. Archive

D. Cold

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

An e-commerce store is preparing for an annual holiday sale. Previously, this sale has increased the number of transactions between two and ten times the normal level of transactions. A cloud administrator wants to implement a process to scale the web server seamlessly. The goal is to automate changes only when necessary and with minimal cost.

Which of the following scaling approaches should the administrator use?

A. Scale horizontally with additional web servers to provide redundancy.

B. Allow the load to trigger adjustments to the resources.

C. When traffic increases, adjust the resources using the cloud portal.

D. Schedule the environment to scale resources before the sale begins.

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Which of the following vulnerability management phases includes the process of discovering newly introduced security vulnerabilities?

A. Scanning

B. Identification

C. Reporting

D. Remediation

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A developer sends multiple requests to a SaaS application in a short amount of time. The developer realizes that the entire server and all other users can no longer send requests to the application. Which of the following best describes the issue?

A. Service quotas

B. API rate limiting

C. Full outage

D. Regional service availability

Correct Answer: *B*

Community vote distribution

C (100%)

👤 **6f7e8ce** 6 days, 12 hours ago

Selected Answer: C

Rate limiting would typically block or slow down just the user or client exceeding the limit, not cause a total service outage for everyone.
The scenario describes that after multiple rapid requests, the entire server and all other users cannot send requests to the application.

This suggests the whole service has stopped working for everyone, not just the user or developer who sent the requests.

upvoted 1 times

A cloud engineer needs to integrate a new payment processor with an existing e-commerce website. Which of the following technologies is the best fit for this integration?

A. RPC over SSL

B. Transactional SQL

C. REST API over HTTPS

D. Secure web socket

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A company's website suddenly crashed. A cloud engineer investigates the following logs:

```
webapp_access.log
…
2023-04-03 16:45:00 GET /home?x=213
2023-04-03 16:45:01 GET /home?x=6544
2023-04-03 16:45:02 GET /home?x=52455
2023-04-03 16:45:03 GET /home?x=56
2023-04-03 16:45:04 GET /home?x=7895
…
2023-04-03 16:47:00 GET /home?x=3986 502
2023-04-03 16:47:01 GET /home?x=2461 502
```

Which of the following is the most likely cause of the issue?

A. SQL injection

B. Cross-site scripting

C. Leaked credentials

D. DDoS

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Which of the following best describes a characteristic of a hot site?

A. Servers in the hot site are clustered with the main site.

B. Network traffic is balanced between the main site and hot site servers

C. Offline server backups are replicated hourly from the main site

D. All servers are replicated from the main site in an online status.

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Five thousand employees always access the company's public cloud-hosted web application on a daily basis during the same time frame. Some users have been reporting performance issues while attempting to connect to the web application. Which of the following is the best configuration approach to resolve this issue?

A. Scale vertically based on a trend.

B. Scale horizontally based on a schedule.

C. Scale vertically based on a load.

D. Scale horizontally based on an event.

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A cloud engineer is reviewing a disaster recovery plan that includes the following requirements:

System state, files, and configurations must be backed up on a weekly basis.

The system state, file, and configuration backups must be tested annually.

Which of the following backup methods should the engineer implement for the first week the plan is executed?

    A. Differential

    B. Incremental

    C. Snapshot

    D. Full

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Which of the following is a direct effect of cloud migration on an enterprise?

A. The enterprise must reorganize the reporting structure.

B. Compatibility issues must be addressed on premises after migration.

C. Cloud solutions will require less resources than on-premises installations.

D. Utility costs will be reduced on premises.

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A company wants to create a few additional VDIs so support vendors and contractors have a secure method to access the company's cloud environment. When a cloud administrator attempts to create the additional instances in the new locations, the operation is successful in some locations but fails in others. Which of the following is the most likely reason for this failure?

A. Partial service outages

B. Regional service availability

C. Service quotas

D. Deprecation of functionality

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

An administrator used a script that worked in the past to create and tag five virtual machines. All of the virtual machines have been created; however, the administrator sees the following results:

{tags: []}

Which of the following is the most likely reason for this result?

A. API throttling

B. Service quotas

C. Command deprecation

D. Compatibility issues

Correct Answer: C

Currently there are no comments in this discussion, be the first to comment!

A cloud administrator needs to collect process-level, memory-usage tracking for the virtual machines that are part of an autoscaling group. Which of the following is the best way to accomplish the goal by using cloud-native monitoring services?

    A. Configuring page file/swap metrics

    B. Deploying the cloud-monitoring agent software

    C. Scheduling a script to collect the data

    D. Enabling memory monitoring in the VM configuration

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A cloud developer is creating a static website that customers will be accessing globally. Which of the following services will help reduce latency?

A. VPC

B. Application load balancer

C. CDN

D. API gateway

Correct Answer: C

Currently there are no comments in this discussion, be the first to comment!

A cloud developer is creating a static website that customers will be accessing globally. Which of the following services will help reduce latency?

A. VPC

B. Application load balancer

C. CDN

D. API gateway

A cloud engineer is designing a cloud native, three-tier application. The engineer must adhere to the following security best practices:

Minimal services should run on all layers of the stack.

The solution should be vendor agnostic.

Virtualization could be used over physical hardware.

Which of the following concepts should the engineer use to design the system to best meet these requirements?

    A. Virtual machine

    B. Microservices

    C. Fan-out

    D. Cloud-provided managed services

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A cloud solutions architect needs to have consistency between production, staging, and development environments. Which of the following options will best achieve this goal?

    A. Using Terraform templates with environment variables

    B. Using Grafana in each environment

    C. Using the ELK stack in each environment

    D. Using Jenkins agents in different environments

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A healthcare organization must follow strict compliance requirements to ensure that PII is not leaked. The cloud administrator needs to ensure the cloud email system can support this requirement. Which of the following should the organization enable?

A. IPS

B. DLP

C. ACL

D. WAF

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A company's content management system (CMS) service runs on an IaaS cluster on a public cloud. The CMS service is frequently targeted by a malicious threat actor using DDoS.
Which of the following should a cloud engineer monitor to identify attacks?

    A. Network flow logs

    B. Endpoint detection and response logs

    C. Cloud provider event logs

    D. Instance syslog

Correct Answer: *A*

Community vote distribution

A (75%)	B (25%)
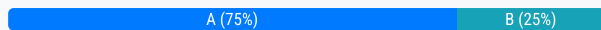
👤 **cwilson91** 4 months ago

Selected Answer: A

@BlueMan93 I hear you.. although I don't believe EDR solutions are available for a lot of CMS or IaaS platforms.

Network flow logs achieve the same goal (for this question) however are a bit more of agnostic and typically are included with most CMS or IaaS solutions.

I'll stick with A unless someone can prove otherwise.

upvoted 3 times

👤 **BlueMan93** 4 months, 1 week ago

Selected Answer: B

I would go with B for this one. Endpoint Detection and Response (EDR) systems help secure networks by identifying vulnerabilities and misconfigurations and continually monitor the network.

upvoted 1 times

Which of the following is the most cost-effective way to store data that is infrequently accessed?

A. Cold site

B. Hot site

C. Off-site

D. Warm site

Correct Answer: *C*

Community vote distribution

C (100%)

👤 **BrannyBran** 4 months, 1 week ago

Selected Answer: C

Off-site in cloud storage would be more cost effective.

upvoted 1 times

👤 **BlueMan93** 4 months, 1 week ago

Selected Answer: C

Horrible question but I'd go with C since warm and cold sites do not store data and the hot site is basically a replica of the live site and is the most expensive. Come on CompTIA.....

upvoted 2 times

Which of the following models will best reduce the cost of running short-term, non-critical workloads?

A. Reserved

B. Spot instance

C. Pay-as-you-go

D. Dedicated host

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Which of the following models will best reduce the cost of running short-term, non-critical workloads?

A. Reserved

B. Spot instance

C. Pay-as-you-go

D. Dedicated host

Which of the following vulnerability management concepts is best defined as the process of discovering vulnerabilities?

    A. Scanning

    B. Assessment

    C. Remediation

    D. Identification

Correct Answer: *D*

Community vote distribution

A (100%)

☐ 👤 **BrannyBran** 4 months, 1 week ago

Selected Answer: A

"NEWLY" Discovered vulnerabilities need to be Identified. The act of just finding vulnerabilities is through scanning

upvoted 1 times

☐ 👤 **BlueMan93** 4 months, 1 week ago

Selected Answer: A

Step 1 - Scan (choice A)

Step 2 - Identify

Step 3 - Assess

Step 4 - Remediate

upvoted 1 times

Which of the following types of storage provides the greatest performance advantage for a traditional relational database?

A. File

B. Object

C. Block

D. Ephemeral

Correct Answer: C

Currently there are no comments in this discussion, be the first to comment!

A cloud networking engineer is troubleshooting the corporate office's network configuration. Employees in the IT and operations departments are unable to resolve IP addresses on all devices, and the IT department cannot establish a connection to other departments' subnets. The engineer identifies the following configuration currently in place to support the office network:

Subnet	Department	Employees
10.1.20.1/24	Finance	50
10.1.30.1/24	IT	90
10.1.40.1/24	Legal	30
10.1.50.1/24	Operations	100

Each employee needs to connect to the network with a maximum of three hosts. Each subnet must be segregated, but the IT department must have the ability to communicate with all subnets. Which of the following meet the IP addressing and routing requirements? (Choose two.)

A. Modifying the subnet mask to 255.255.254.0 for IT and operations departments

B. Configuring static routing to allow access from each subnet to 10.1.40.1

C. Modifying the BYOD policy to reduce the volume of devices that are allowed to connect to the corporate network

D. Configuring static routing to allow access from 10.1.30.1 to each subnet

E. Combining the subnets and increasing the allocation of IP addresses available to support three hosts for each employee

F. Modifying the subnet mask to 255.255.255.128 for the IT and operations departments

Correct Answer: *AD*

Community vote distribution

AD (100%)

👤 **raiderz0725** 1 month, 1 week ago

Selected Answer: AD

Agree with A,D A increases available IPs more than F

and D just makes sense with static routing

upvoted 1 times

👤 **cwilson91** 4 months ago

Selected Answer: AD

F is definitely not correct. If you do this you'll reduce the available IPs from ~254 to ~127.

A and D makes the most sense to me.

A: Will increase the available IP's from ~254 to ~510
D: Explicitly allows the IT subnet to talk to the other subnets. (I would think this would be done via a firewall rule but technically a static route could work)

upvoted 1 times

👤 **5d81303** 4 months ago

Selected Answer: AD

A: would increase the subnet size to allow for 512 IPs, thus allowing enough space.
D: static route makes sense
Hopefully others will add comments as well so a consensus/resolution will be found.

upvoted 1 times

Which of the following compute resources is the most optimal for running a single scripted task on a schedule?

A. Bare-metal server

B. Managed container

C. Virtual machine

D. Serverless function

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A video surveillance system records road incidents and stores the videos locally before uploading them to the cloud and deleting them from local storage. Which of the following best describes the nature of the local storage?

A. Persistent

B. Ephemeral

C. Differential

D. Incremental

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

An organization is hosting a seminar with eight individuals who need to connect to their own dedicated VM. The technician used the following VM configurations:

IP address: DHCP -

NIC: 1Gbps -

Network: 10.1.10.0/29 -

Several users are unable to access their VMs. Which of the following best describes the reason?

A. Not enough addresses are available.

B. The routes are misconfigured.

C. Too much traffic is on the network.

D. DHCP is not working correctly on the VM.

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Department supervisors have requested a report that will help them understand the utilization of cloud resources, make decisions about budgeting for the following year, and reduce costs. Which of the following are the most important requisite steps to create the report? (Choose two.)

A. Set the desired retention of resource logs.

B. Configure application tracing.

C. Integrate email alerts with ticketing software.

D. Enable resource tagging.

E. Configure the collection of performance/utilization logs.

F. Configure metric threshold alerts.

Correct Answer: *DE*

Currently there are no comments in this discussion, be the first to comment!

A cloud engineer wants to deploy a new application to the cloud and is writing the following script:

```
terraform {
    required_providers {
        cloud_provider1 = {
            source = "hashicorp/cloud_provider1"
            version = "~> 4.16"
    }
}
    required_version = ">= 1.2.0"
}
provider "cloud_provider1" {
    region = "us-west-2"
}
resource "server_instance" "app_server" {
        ami = "ami-830c94e3"
        instance_type = "t2.micro"
tags = {
    Name = "AppServerInstance"
    }
}
```

Which of the following actions will this script perform?

A. Upload a new VM image.

B. Create a new cloud resource.

C. Build a local server.

D. Import a cloud module.

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A network administrator is building a site-to-site VPN tunnel from the company's headquarters office to the company's public cloud development network. The network administrator confirms the following:

The VPN tunnel is established on the headquarters office firewall.

While inside the office, developers report that they cannot connect to the development network resources.

While outside the office on a client VPN, developers report that they can connect to the development network resources.

The office and the client VPN have different IP subnet ranges.

The firewall flow logs show that traffic is reaching the development network from the office.

Which of the following is the next step the network administrator should take to troubleshoot the VPN tunnel?

A. Review the development network routing table.

B. Change the ciphers on the site-to-site VPN.

C. Restart the site-to-site VPN tunnel.

D. Check the ACLs on the development workloads.

Correct Answer: *D*

Community vote distribution

D (75%) A (25%)

☐ 👤 **6f7e8ce** 2 days, 8 hours ago

Selected Answer: A

The key clues are:

The VPN tunnel is up and traffic is reaching the development network from the office.

Developers can access the development network when on the client VPN (which uses a different IP subnet).

Developers cannot access it from the office subnet.

This suggests the issue is not with the tunnel itself, but rather with routing:
The development network likely doesn't have a proper route back to the office subnet. If there's no return route, the initial request reaches the cloud, but the response has nowhere to go — effectively breaking communication.

upvoted 1 times

☐ 👤 **DrSpaceman117** 3 weeks, 6 days ago

Selected Answer: D

D: IDK why you would Review the routing table if you confirm your traffic is going to development

upvoted 1 times

☐ 👤 **pdepingre** 1 month ago

Selected Answer: D

Given these considerations, the most logical next step for troubleshooting is to check for access control lists (ACLs) on the development workloads, as this could directly impact connectivity based on source IP addresses and subnets.

D. Check the ACLs on the development workloads.

upvoted 2 times

A cross-site request forgery vulnerability exploited a web application that was hosted in a public IaaS network. A security engineer determined that deploying a WAF in blocking mode at a CDN would prevent the application from being exploited again. However, a week after implementing the WAF, the application was exploited again. Which of the following should the security engineer do to make the WAF control effective?

    A. Configure the DDoS protection on the CDN.

    B. Install endpoint protection software on the VMs.

    C. Add an ACL to the VM subnet.

    D. Deploy an IDS on the IaaS network.

Correct Answer: *A*

Community vote distribution

D (100%)

  👤 **6f7e8ce** 2 days, 8 hours ago

Selected Answer: D

DDoS protection stops volumetric attacks (overwhelming traffic), not targeted application layer vulnerabilities like CSRF.

upvoted 1 times

An organization's critical data was exfiltrated from a computer system in a cyberattack. A cloud analyst wants to identify the root cause and is reviewing the following security logs of a software web application:

```
"2021/12/18 09:33:12" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=administrator&p=or%201%20=1"
"2021/12/18 09:33:13" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=administrator&p=%27%0A"
"2021/12/18 09:33:14" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=administrator&p=%26
"2021/12/18 09:33:17" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=administrator&p=%3B"
"2021/12/18 09:33:12" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=admin&p=or%201%20=1"
"2021/12/18 09:33:19" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=admin&p=%27%0A"
"2021/12/18 09:33:21" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=admin&p=%26"
"2021/12/18 09:33:23" "10.34.32.18" "104.224.123.119" "POST /login.php?
u=admin&p=%3B"
```

Which of the following types of attacks occurred?

    A. SQL injection

    B. Cross-site scripting

    C. Reuse of leaked credentials

    D. Privilege escalation

Correct Answer: *A*

Community vote distribution

A (100%)

☐ 👤 **cwilson91** 4 months ago

Selected Answer: A

The logs show multiple attempts to exploit the login functionality of a web application using SQL injection techniques. Here are the key indicators:

The payloads include patterns like:

or 1=1: A common SQL injection technique to bypass authentication by manipulating the query logic to always evaluate as true.

';: This is used to terminate a SQL query and inject additional commands.

%27, %26, %3B: URL-encoded characters for ', &, and ;, which are often used in SQL injection attacks to manipulate queries.
  upvoted 1 times

A banking firm's cloud server will be decommissioned after a successful proof of concept using mirrored data. Which of the following is the best action to take regarding the storage used on the decommissioned server?

    A. Keep it temporarily

    B. Archive it.

    C. Delete it.

    D. Retain it permanently.

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A company operates a website that allows customers to upload, share, and retain full ownership of their photographs. Which of the following could affect image ownership as the website usage expands globally?

A. Sovereignty

B. Data classification

C. Litigation holds

D. Retention

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A systems administrator is provisioning VMs according to the following requirements:

A VM instance needs to be present in at least two data centers.

During replication, the application hosted on the VM tolerates a maximum latency of one second.

When a VM is unavailable, failover must be immediate.

Which of the following replication methods will best meet these requirements?

A. Snapshot

B. Transactional

C. Live

D. Point-in-time

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A DevOps engineer is performing maintenance on the mail servers for a company's web application. Part of this maintenance includes checking core operating system updates. The servers are currently running version 3.2 of the operating system. The engineer has two update options—one to version 4.1 and the other to version 3.7. Both versions are fully supported by the operating system manufacturer. Which of the following best describes the action the engineer should take?

    A. Upgrade to 3.7 in the development environment.

    B. Upgrade to 4.1 on one production server at a time.

    C. Read the release notes on version 4.1

    D. Schedule a maintenance window and upgrade to 3.7 in the production environment.

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Which of the following is the most cost-effective and efficient strategy when migrating containers to the cloud?

A. Retire

B. Replatform

C. Retain

D. Refactor

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

An organization's web application experiences periodic bursts of traffic when a new video is launched. Users are reporting poor performance in the middle of the month. Which of the following scaling approaches should the organization use to scale based on forecasted traffic?

A. Scheduled

B. Manual

C. Event

D. Load

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A cloud infrastructure administrator updated the IP tables to block incoming connections and outgoing responses to 104.225.110.203. Which of the following vulnerability management steps is this an example of?

A. Scanning scope

B. Remediation

C. Identification

D. Assessment

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

An administrator needs to adhere to the following requirements when moving a customer's data to the cloud:

The new service must be geographically dispersed.

The customer should have local access to data.

Legacy applications should be accessible.

Which of the following cloud deployment models is most suitable?

    A. On-premises

    B. Private

    C. Hybrid

    D. Public

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A company's VMs that are created using the noncritical application tag are automatically shut down at 5:00 p.m. using a cronjob. Which of the following actions would allow a cloud engineer to stop all unresponsive instances with the least effort in case the automation fails?

    A. Using the cloud audit logs for tagging and stopping events

    B. Using the cloud provider web console to check and stop the instances

    C. Using the cloud provider command line to stop the instances based on tags

    D. Using a Bash script to shut down all instances

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A company uses containers stored in Docker Hub to deploy workloads for its IaaS infrastructure. The development team releases changes to the containers several times per hour.

Which of the following should a cloud engineer do to prevent the proprietary code from being exposed to third parties?

    A. Use IaC to deploy the IaaS infrastructure.

    B. Convert the containers to VMs.

    C. Deploy the containers over SSH.

    D. Use private repositories for the containers.

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A social networking company operates globally. Some users from Brazil and Argentina are reporting the following error: website address was not found. Which of the following is the most likely cause of this issue?

A. Client DNS misconfiguration

B. Regional DNS provider outage

C. DNS server misconfiguration

D. DNSSEC key mismatch

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A junior cloud administrator was recently promoted to cloud administrator and has been added to the cloud administrator group. The cloud administrator group is the only one that can access the engineering VM. The new administrator unsuccessfully attempts to access the engineering VM. However, the other administrators can access it without issue. Which of the following is the best way to identify the root cause?

A. Rebooting the engineering VM

B. Reviewing the administrator's permissions to access the engineering VM

C. Allowing connections from 0.0.0.0/0 to the engineering VM

D. Performing a packet capture on the engineering VM

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Which of the following describes the main difference between public and private container repositories?

A. Private container repository access requires authorization, while public repository access does not require authorization.

B. Private container repositories are hidden by default and containers must be directly referenced, while public container repositories allow browsing of container images.

C. Private container repositories must use proprietary licenses, while public container repositories must have open-source licenses.

D. Private container repositories are used to obfuscate the content of the Dockerfile, while public container repositories allow for Dockerfile inspection.

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

A DevOps engineer is receiving reports that users can no longer access the company's web application after hardening of a web server. The users are receiving the following error:

ERR SSL VERSION OR CIPHER MISMATCH.

Which of the following actions should the engineer take to resolve the issue?

- A. Restart the web server.
- B. Configure TLS 1.2 or newer.
- C. Update the web server.
- D. Review logs on the WAF.

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A company's engineering department is conducting a month-long test on the scalability of an in-house-developed software that requires a cluster of 100 or more servers. Which of the following models is the best to use?

A. PaaS

B. SaaS

C. DBaaS

D. IaaS

Correct Answer: *A*

Community vote distribution

A (100%)

☐ 👤 **cwilson91** 4 months ago

Selected Answer: A

This one is pretty tricky and not really worded well.

PaaS solutions typically give you some level of scalability control, however isn't as granular as IaaS. I feel like the question needs to give us more context in terms of how in-depth or how much control the engineering team needs for scaling their software.

I'd probably lean toward PaaS since it's only a "test" and configuring an IaaS would be much more of an effort.

upvoted 1 times

☐ 👤 **cwilson91** 4 months ago

On second thought, the testing is purely on the scalability.. The engineering team may need a high level of control over that to properly test it..

I can totally see the answer being IaaS as well.

upvoted 2 times

☐ 👤 **BlueMan93** 4 months, 1 week ago

Selected Answer: A

Agree with BrannyBran, PaaS is best for developers and focusing on configuring and maintaining your own software without worrying about the OS or hardware.

upvoted 1 times

☐ 👤 **BrannyBran** 4 months, 1 week ago

Selected Answer: A

PaaS (Platform as a Service) is generally considered the best cloud model for servers as it allows developers to focus on coding and application logic without managing underlying infrastructure, leading to faster development cycles and reduced operational overhead.

upvoted 1 times

A cloud administrator shortens the amount of time a backup runs. An executive in the company requires a guarantee that the backups can be restored with no data loss. Which of the following backup features should the administrator test for?

- A. Encryption
- B. Retention
- C. Schedule
- D. Integrity

Correct Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

A cloud administrator is building a company-standard VM image, which will be based on a public image. Which of the following should the administrator implement to secure the image?

- A. ACLs
- B. Least privilege
- C. Hardening
- D. Vulnerability scanning

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A cloud administrator is building a company-standard VM image, which will be based on a public image. Which of the following should the administrator implement to secure the image?

- A. ACLs
- B. Least privilege
- C. Hardening
- D. Vulnerability scanning

A cloud deployment uses three different VPCs. The subnets on each VPC need to communicate with the others over private channels. Which of the following will achieve this objective?

    A. Deploying a load balancer to send traffic to the private IP addresses

    B. Creating peering connections between all VPCs

    C. Adding BGP routes using the VPCs' private IP addresses

    D. Establishing identical routing tables on all VPCs

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A cloud resource increases its capacity based on seasonal activity. Which of the following best describes this type of cloud instance and the scaling approach?

A. Fixed; triggered by load

B. Permanent; triggered manually

C. Elastic; triggered by trend

D. Ephemeral; triggered by event

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Which of the following can eliminate the risk of CI/CD pipelines leaking secrets on containers?

A. Peer-reviewed pull requests

B. Use of a VM instead of containers

C. Private image repositories

D. Canary tests

Correct Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

A company uses containers to implement a web application. The development team completed internal testing of a new feature and is ready to move the feature to the production environment. Which of the following deployment models would best meet the company's needs while minimizing cost and targeting a specific subset of its users?

A. Canary

B. Blue-green

C. Rolling

D. In-place

Correct Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Once a change has been made to templates, which of the following commands should a cloud architect use next to deploy an IaaS platform?

A. git pull

B. git fetch

C. git commit

D. git push

Correct Answer: *D*

Community vote distribution

C (100%)

☐ 👤 **BlueMan93** 4 months, 1 week ago

Selected Answer: C

Once a change is made, you need to commit the changes to update the Git repository.

The git push command uploads a local working copy of a repository to a remote repository.

upvoted 1 times

☐ 👤 **cwilson91** 4 months ago

Agreed. While git push is necessary to send committed changes to the remote repository, it's not the next step immediately after making changes. Committing the changes locally must come first.

upvoted 1 times

A company is developing a new web application that requires a relational database management system with minimal operational overhead. Which of the following should the company choose?

    A. A database installed on a virtual machine

    B. A managed SQL database on the cloud

    C. A database migration service

    D. A hybrid database setup

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!
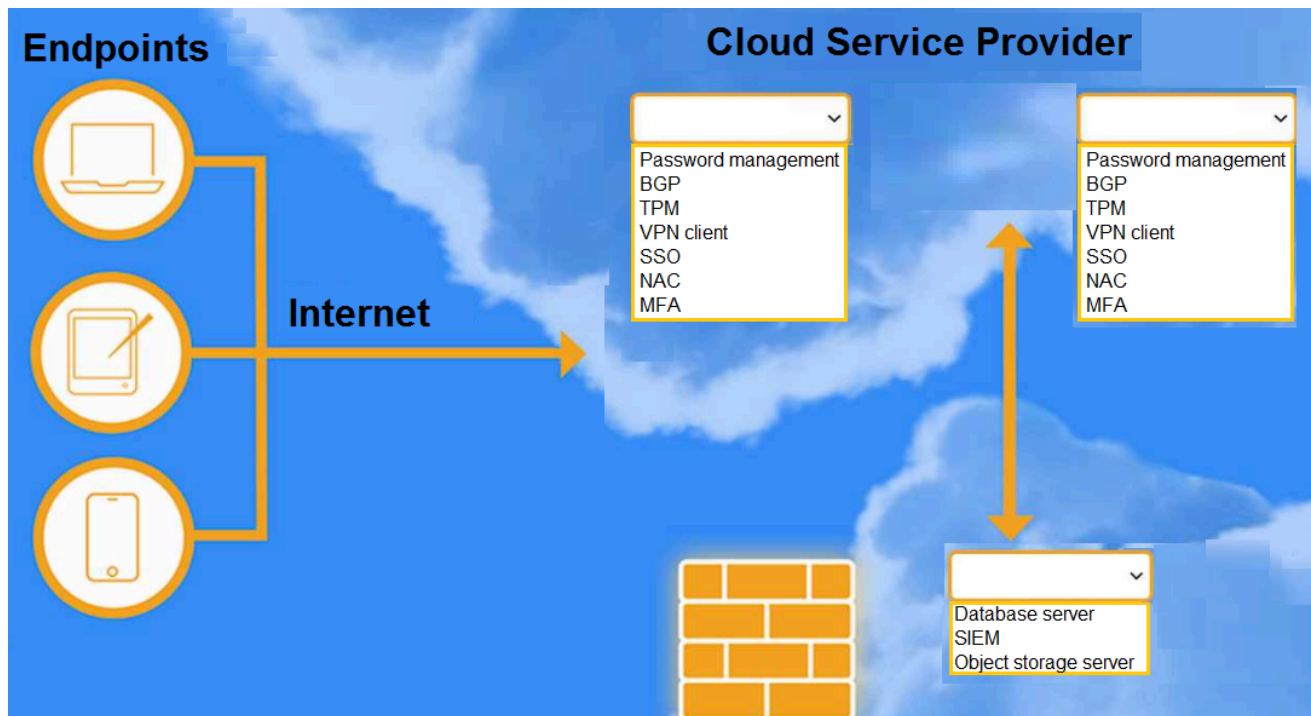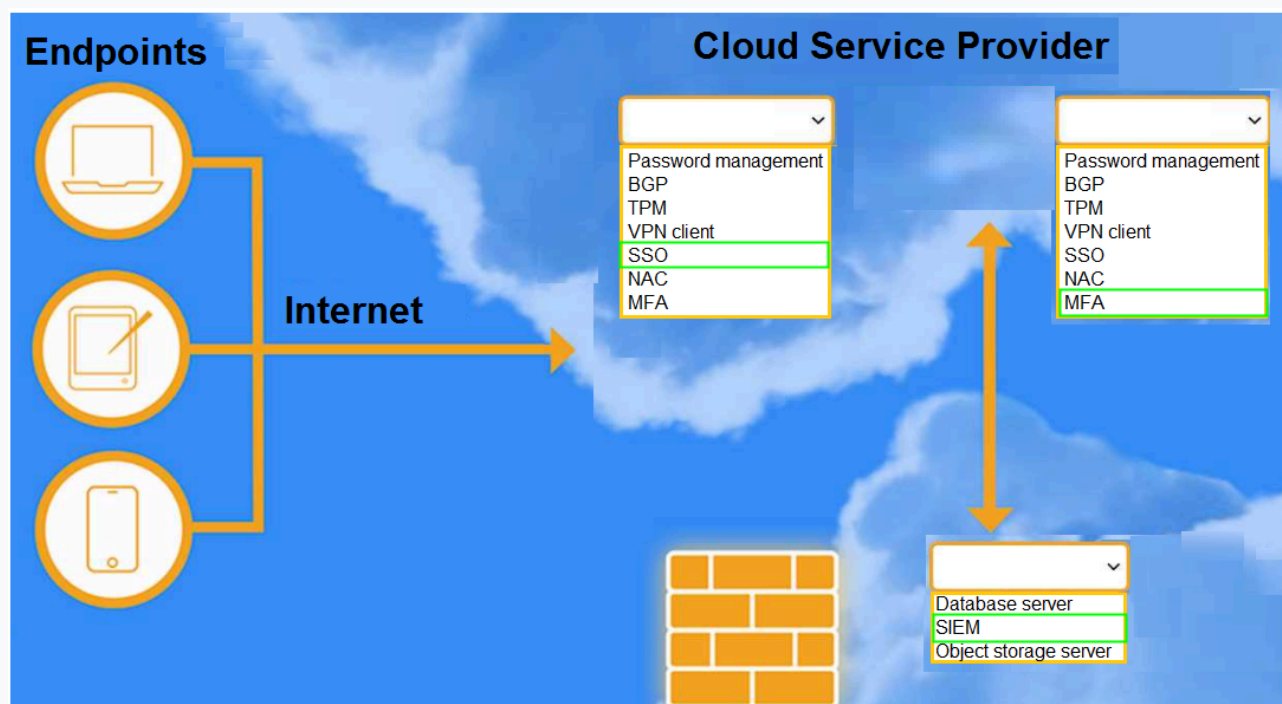
HOTSPOT -

A highly regulated business is required to work remotely, and the risk tolerance is very low. You are tasked with providing an identity solution to the company cloud that includes the following: secure connectivity that minimizes user login tracks User activity and monitors for anomalous activity requires secondary authentication

INSTRUCTIONS -

Select controls and servers for the proper control points.
Each control may only be used once.
If at any time you would like to bring back the Initial state of the simulation, please click the Reset All button.

Endpoints

Cloud Service Provider

Internet

[dropdown] ∨
Password management
BGP
TPM
VPN client
SSO
NAC
MFA

[dropdown] ∨
Password management
BGP
TPM
VPN client
SSO
NAC
MFA

[dropdown] ∨
Database server
SIEM
Object storage server

Correct Answer:

Endpoints

Cloud Service Provider

Internet

[dropdown] ∨
Password management
BGP
TPM
VPN client
SSO
NAC
MFA

[dropdown] ∨
Password management
BGP
TPM
VPN client
SSO
NAC
MFA

[dropdown] ∨
Database server
SIEM
Object storage server

Currently there are no comments in this discussion, be the first to comment!

SIMULATION -

You are a cloud engineer working for a cloud service provider that is responsible for an IaaS offering.

Your customer, who creates VMs and manages virtual storage, has noticed I/O bandwidth issues and low IOPS (under 9000).

Your manager wants you to verify the proper storage configuration as dictated by your service level agreement (SLA).

The SLA specifies:

Each SFP on the hypervisor host must be set to the maximum link speed allowed by the SAN array.

All SAN array disk groups must be configured in a RAID 5.

The SAN array must be fully configured for redundant fabric paths.
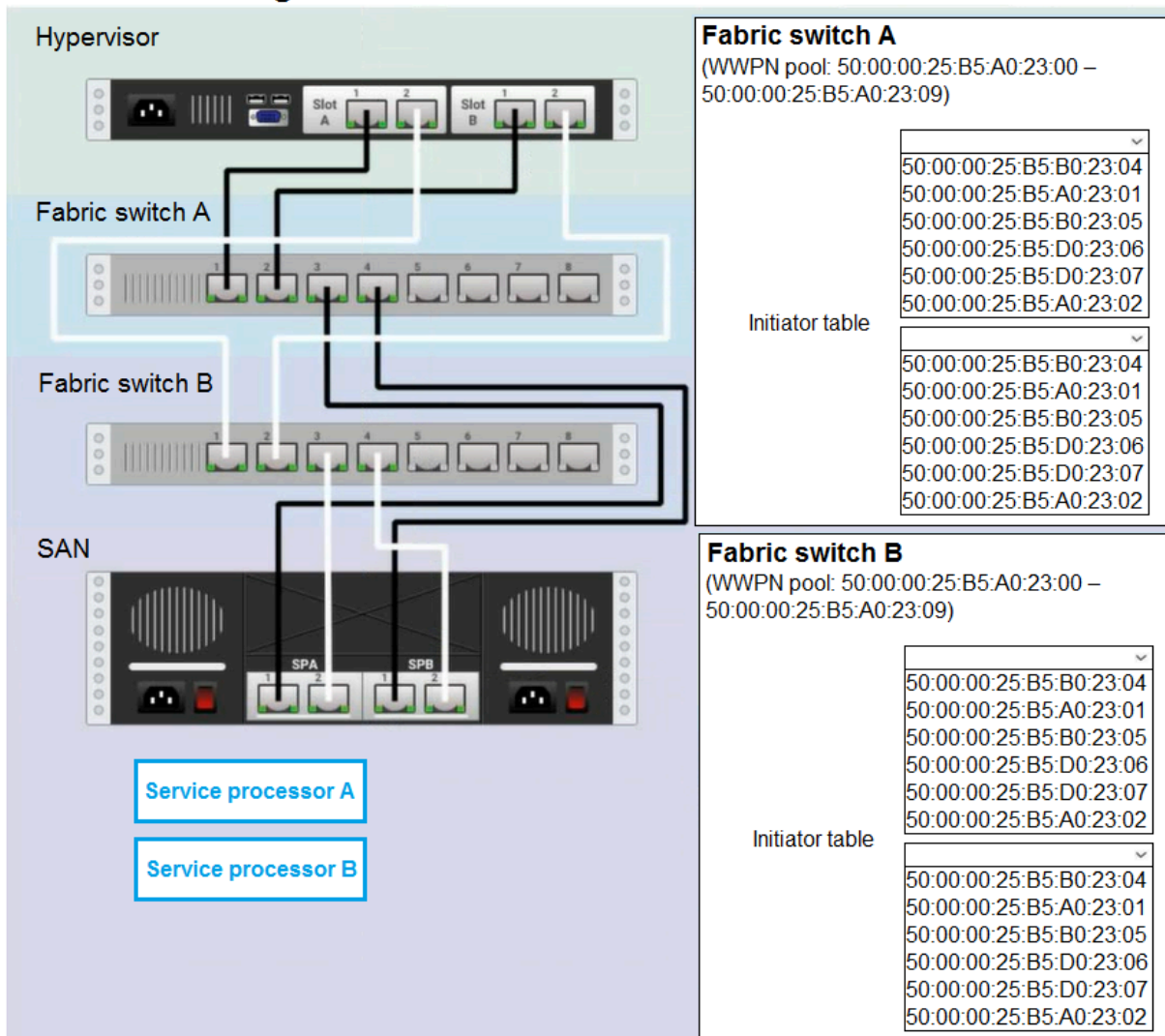
IOPS should not fall below 14000

INSTRUCTIONS -

Click on each service processor to review the displayed information. Then click on the drop-down menus to change the settings of each device as necessary to conform to the SLA requirements.

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

Cloud device diagram

Cloud device diagram

Hypervisor

Slot A   1 2
Slot B   1 2

Fabric switch A

1 2 3 4 5 6 7 8

Fabric switch B

1 2 3 4 5 6 7 8

SAN

SPA   1 2
SPB   1 2

Service processor A

Service processor B

Fabric switch A
(WWPN pool: 50:00:00:25:B5:A0:23:00 –
50:00:00:25:B5:A0:23:09)

Initiator table

50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:A0:23:02

50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:A0:23:02

Fabric switch B
(WWPN pool: 50:00:00:25:B5:A0:23:00 –
50:00:00:25:B5:A0:23:09)

Initiator table

50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:A0:23:02

50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:A0:23:02

Service processor A details ☒

"no initiators currently logged in"

SP-A module 0 Port 0	8 Gbps
SP-A module 0 Port 1	8 Gbps
Disk groups	1
RAID level	5

Service processor B details ☒

"50:00:00:25:B5:A0:23:02 – logged in"

"50:00:00:25:B5:B0:23:04 – logged in"

SP-B module 0 Port 0	8 Gbps
SP-B module 0 Port 1	8 Gbps
Disk groups	1
RAID level	5

Correct Answer:

Slot A and Slot B Fiber Channel Cards on Hypervisor Host:
Set **Port 1** and **Port 2** link speeds for both Slot A and Slot B to **16 Gbps** (the maximum link speed allowed by the SAN array), which will help maximize I/O bandwidth.

Fabric Switch A:
From the WWPN pool provided, select two unique WWPN addresses for Fabric Switch A's initiator table. For redundancy and performance, these should be linked to **both Service Processor A and Service Processor B** in the SAN.

Suggested choices:
50:00:00:25:B5:A0:23:04 (SPA)
50:00:00:25:B5:A0:23:06 (SPB)

Fabric Switch B:
Similarly, select two unique WWPN addresses for Fabric Switch B's initiator table, ensuring these are connected to both Service Processors for redundancy.

Suggested choices:
50:00:00:25:B5:A0:23:02 (SPA)
50:00:00:25:B5:A0:23:05 (SPB)

Currently there are no comments in this discussion, be the first to comment!

Which of the following provides secure, private communication between cloud environments without provisioning additional hardware or appliances?

A. VPN

B. VPC peering

C. BGP

D. Transit gateway

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

A cloud engineer is running a latency-sensitive workload that must be resilient and highly available across multiple regions. Which of the following concepts best addresses these requirements?

A. Cloning

B. Clustering

C. Hardware passthrough

D. Stand-alone container

Correct Answer: *B*

Currently there are no comments in this discussion, be the first to comment!