Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 1

[All AZ-301 Questions]

HOTSPOT -

You deploy several Azure SQL Database instances.

You plan to configure the Diagnostics settings on the databases as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The amount of time that SQLInsights data will be stored in blob storage is [answer choice].

30 days
90 days
730 days
indefinite

The maximum amount of time that SQLInsights data can be stored in Azure Log Analytics is [answer choice].

30 days
90 days
730 days
indefinite

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 1

[All AZ-301 Questions]

Your company uses Microsoft System Center "" Service Manager on its on-premises network.

You plan to deploy several services to Azure.

You need to recommend a solution to push Azure service health alerts to Service Manager.

What should you include in the recommendation?

A. Azure Notification Hubs

B. Azure Event Hubs

C. IT Service Management Connector (ITSM)

D. Application Insights Connector

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 1

[All AZ-301 Questions]

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster hosts 3 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines

B. Create a virtual machine scale set that uses autoscaling

C. Configure a spending limit in the Azure account center

D. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab

E. Activate Azure Hybrid Benefit for the Azure virtual machines

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 1

[All AZ-301 Questions]

You have an on-premises Active Directory forest and an Azure Active Directory (Azure AD) tenant. All Azure AD users are assigned a Premium P1 license.

You deploy Azure AD Connect.

Which two features are available in this environment that can reduce operational overhead for your company's help desk? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure AD Privileged Identity Management policies

B. access reviews

C. self-service password reset

D. Microsoft Cloud App Security Conditional Access App Control

E. password writeback

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 1

[All AZ-301 Questions]

You are planning the implementation of an order processing web service that will contain microservices hosted in an Azure Service Fabric cluster.

You need to recommend a solution to provide developers with the ability to proactively identify and fix performance issues. The developers must be able to simulate user connections to the order processing web service from the Internet, as well as simulate user transactions. The developers must be notified if the goals for the transaction response times are not met.

What should you include in the recommendation?

A. container health

B. Azure Network Watcher

C. Application Insights

D. Service Fabric Analytics

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 1

[All AZ-301 Questions]

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployments in your subscription.

What should you include in the recommendation?

A. Azure Analysis Services

B. Azure Activity Log

C. Azure Monitor action groups

D. Azure Advisor

E. Azure Monitor metrics

F. Azure Log Analytics

G. Application Insights

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 1

[All AZ-301 Questions]

HOTSPOT -

You have an Azure App Service Web App that includes Azure Blob storage and an Azure SQL Database instance. The application is instrumented by using the Application Insights SDK.

You need to design a monitoring solution for the web app.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario	Azure monitoring service
Correlate Azure resource usage and performance data with application configuration and performance data.	▼ Azure Application Insights Azure Service Map Azure Log Analytics Azure Activity Log
Visualize the relationships between application components.	▼ Azure Application Insights Azure Service Map Azure Log Analytics Azure Activity Log
Track requests and exceptions to a specific line of code within the application.	▼ Azure Application Insights Azure Service Map Azure Log Analytics Azure Activity Log
Analyze how many users return to the application and how often they select a particular dropdown value.	▼ Azure Application Insights Azure Service Map Azure Log Analytics Azure Activity Log

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 1

[All AZ-301 Questions]

DRAG DROP -

You have an Azure Active Directory (Azure AD) tenant. All user accounts are synchronized from an on-premises Active Directory domain and are configured for federated authentication. Active Directory Federation Services (AD FS) servers are published for external connections by using a farm of Web Application Proxy servers.

You need to recommend a solution to monitor the servers that integrate with Azure AD. The solution must meet the following requirements:

☞ Identify any AD FS issues and their potential resolutions.

☞ Identify any directory synchronization configuration issues and their potential resolutions

☞ Notify administrators when there are any issues affecting directory synchronization or AD FS operations.

Which monitoring solution should you recommend for each server type? To answer, drag the appropriate monitoring solutions to the correct server types. Each monitoring solution may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Monitoring Solutions

| A Microsoft Office 365 management solution in Azure Log Analytics |

| Active Directory Replication Status Tool |

| An Active Directory Health Check solution in Azure Log Analytics |

| An Active Directory Replication Status solution in Azure Log Analytics |

| Azure AD Connect Health |

| Azure Security Center |

Answer Area

AD FS servers: [ ]

Azure AD Connect servers: [ ]

Web Application Proxy servers: [ ]

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 1

[All AZ-301 Questions]

You plan to deploy 200 Microsoft SQL Server databases to Azure by using Azure SQL Database and Azure SQL Database Managed Instance.

You need to recommend a monitoring solution that provides a consistent monitoring approach for all deployments. The solution must meet the following requirements:

☞ Support current-state analysis based on metrics collected near real-time, multiple times per minute, and maintained for up to one hour

☞ Support longer term analysis based on metrics collected multiple times per hour and maintained for up to two weeks.

Support monitoring of the number of concurrent logins and concurrent sessions.

.

What should you include in the recommendation?

    A. dynamic management views

    B. trace flags

    C. Azure Monitor

    D. SQL Server Profiler

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 1

[All AZ-301 Questions]

DRAG DROP -

You plan to move several apps that handle critical line-of-business (LOB) services to Azure.

Appropriate personnel must be notified if any critical resources become degraded or unavailable.

You need to design a monitoring and notification strategy that can handle up to 100 notifications per hour.

Which three actions should you recommend be performed in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions

Create a resource group containing the critical resources.

Monitor Azure status for warnings and errors.

Create an activity log alert for service health.

Create an action group for alerts to email addresses.

Create an action group for alerts to SMS phone numbers.

Monitor service health for incidents and action required notifications.

Answer Area

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 1

[All AZ-301 Questions]

DRAG DROP -

You manage a solution in Azure.

The solution is performing poorly.

You need to recommend tools to determine causes for the performance issues.

What should you recommend? To answer, drag the appropriate monitoring solutions to the correct scenarios. Each monitoring solution may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Monitoring solutions

| Azure Log Analytics | Azure Monitor |

Answer Area

Scenario	Monitoring solution
Metrics on Azure infrastructure	
Functionality of Azure infrastructure	
Security of Azure infrastructure	

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:

☞ The members of App2Dev must be prevented from changing the role assignments in Azure.

☞ The members of App2Dev must be able to create new Azure resources required by Application2.

☞ All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the Owner role for the Project2 subscription. Assign App2Dev the Contributor role for the Project2 subscription.

Does this meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You identify the following requirements for Application2:

☞ The members of App2Dev must be prevented from changing the role assignments in Azure.

☞ The members of App2Dev must be able to create new Azure resources required by Application2.

☞ All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the User Access Administrator role for the Project2 subscription. Assign App2Dev the Owner role for the Project2 subscription.

Does this meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You identify the following requirements for Application2:

☞ The members of App2Dev must be prevented from changing the role assignments in Azure.

☞ The members of App2Dev must be able to create new Azure resources required by Application2.

☞ All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: In Project1, create a resource group named Application2RG. Assign Project1admins the Owner role for Application2RG. Assign App2Dev the Contributor role for Application2RG.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

☞ The researchers must be allowed to create Azure virtual machines.

The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

▪

Solution: Create a lab in Azure DevTest Lab. Configure the DevTest Labs settings. Assign the DevTest Labs User role to the ResearchUsers group.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

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You have an Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

☞ The researchers must be allowed to create Azure virtual machines.

☞ The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: Create an Azure DevOps Project. Configure the DevOps Project settings.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

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You have an Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

☞ The researchers must be allowed to create Azure virtual machines.

☞ The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: On RG1, assign the Contributor role to the ResearchUsers group. Create a custom Azure Policy definition and assign the policy to RG1.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 2

[All AZ-301 Questions]

A company named Contoso Ltd., has a single-domain Active Directory forest named contoso.com.

Contoso is preparing to migrate all workloads to Azure. Contoso wants users to use single sign-on (SSO) when they access cloud-based services that integrate with Azure Active Directory (Azure AD).

You need to identify any objects in Active Directory that will fail to synchronize to Azure AD due to formatting issues. The solution must minimize costs.

What should you include in the solution?

- A. Azure Advisor

- B. Microsoft Office 365 IdFix

- C. Azure AD Connect Health

- D. Password Export Server version 3.1 (PES v3.1) in Active Directory Migration Tool (ADMT)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

Your company has an API that returns XML data to internal applications.

You plan to migrate the applications to Azure. You also plan to allow the company's partners to access the API.

You need to recommend an API management solution that meets the following requirements:

☞ Internal applications must receive data in the JSON format once the applications migrate to Azure.

☞ Partner applications must have their header information stripped before the applications receive the data.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Minimum number of APIs to add to Azure API Management: ▼
| 1 |
| 2 |
| 3 |

Minimum number of products to publish in Azure API Management: ▼
| 1 |
| 2 |
| 3 |

Minimum number of policy elements to add: ▼
| 1 |
| 2 |
| 3 |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 2

[All AZ-301 Questions]

You have an Azure subscription.

You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

➥ Only allow the creation of the virtual machines in specific regions.

➥ Only allow the creation of specific sizes of virtual machines.

What should include in the recommendation?

    A. conditional access policies

    B. Azure Policy

    C. Azure Resource Manager templates

    D. role-based access control (RBAC)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

Your company has 20 web APIs that were developed in-house.

The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company's Azure Active Directory (Azure AD) tenant. The web APIs are published by using Azure API Management.

You need to recommend a solution to block unauthorized requests originating from the web apps from reaching the web APIs. The solution must meet the following requirements:

☞ Use Azure AD-generated claims.

☞ Minimize configuration and management effort.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Grant permissions to allow the web apps to access the web APIs by using:

▼
Azure AD
Azure API Management
The web APIs

Configure a JSON Web Token (JWT) validation policy by using:

▼
Azure AD
Azure API Management
The web APIs

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You are designing an access policy for the sales department at your company.

Occasionally, the developers at the company must stop, start, and restart Azure virtual machines. The development team changes often.

You need to recommend a solution to provide the developers with the required access to the virtual machines. The solution must meet the following requirements:

☞ Provide permissions only when needed.

☞ Use the principle of least privilege.

☞ Minimize costs.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Azure Active Directory (Azure ID) license:

Free
Basic
Premium P1
Premium P2

Security feature:

Just in time VM access
A conditional access policy
Privileged Identity Management for the Azure resources

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 12

Topic #: 2

[All AZ-301 Questions]

Your network contains an on-premises Active Directory forest.

You discover that when users change jobs within your company, the membership of the user groups are not being updated. As a result, the users can access resources that are no longer relevant to their job.

You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect.

You need to recommend a solution to ensure that group owners are emailed monthly about the group memberships they manage.

What should you include in the recommendation?

    A. Azure AD access reviews

    B. Tenant Restrictions

    C. Azure AD Identity Protection

    D. conditional access policies

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 13

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You are designing a software as a service (SaaS) application that will enable Azure Active Directory (Azure AD) users to create and publish surveys. The SaaS application will have a front-end web app and a back-end web API. The web app will rely on the web API to handle updates to customer surveys.

You need to design an authorization flow for the SaaS application. The solution must meet the following requirements:

☞ To access the back-end web API, the web app must authenticate by using OAuth 2 bearer tokens.

☞ The web app must authenticate by using the identities of individual users.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area:

The access tokens will be generated by:

Azure AD
A web app
A web API

Authorization decisions will be performed by:

Azure AD
A web app
A web API

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 14

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription.

You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

☞ Ensure that the applications can authenticate only when running on the 10 virtual machines.

☞ Minimize administrative effort.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To provision the Azure AD identity: ▼

Create a system-assigned **Managed Identities for Azure resources**
Create a user-assigned **Managed Identities for Azure resources**
Register each application in Azure AD

To authenticate request a token by using: ▼

An Azure AD v1.0 endpoint
An Azure AD v2.0 endpoint
An Azure Instance Metadata Service Identity
OAuth2 endpoint

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 15

Topic #: 2

[All AZ-301 Questions]

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription.

Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), Active Directory Federation Services (AD FS), Azure AD Connect, and Microsoft Identity Manager (MIM).

Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on- premises identity infrastructure as Contoso.

A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription.

You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers. The solution must ensure that the Fabrikam developers use their existing credentials to access resources.

What should you recommend?

    A. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.

    B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.

    C. In the Azure AD tenant of Contoso, enable Azure Active Directory Domain Services (Azure AD DS). Create a one-way forest trust that uses selective authentication between the Active Directory forests of Contoso and Fabrikam.

    D. In the Azure AD tenant of Contoso, create guest accounts for the Fabrikam developers.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 16

Topic #: 2

[All AZ-301 Questions]

You have a hybrid deployment of **Azure Active Directory (Azure AD)**.

You need to recommend a solution to ensure that the **Azure AD** tenant can be managed only from the computers on your on-premises network.

What should you include in the recommendation?

A. Azure AD roles and administrators

B. a conditional access policy

C. Azure AD Application Proxy

D. Azure AD Privileged Identity Management

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 17

Topic #: 2

[All AZ-301 Questions]

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains two administrative user accounts named Admin1 and Admin2.

You create two Azure virtual machines named VM1 and VM2.

You need to ensure that Admin1 and Admin2 are notified when more than five events are added to the security log of VM1 or VM2 during a period of 120 seconds.

The solution must minimize administrative tasks.

What should you create?

    A. two action groups and one alert rule

    B. one action group and one alert rule

    C. five action groups and one alert rule

    D. two action groups and two alert rules

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 18

Topic #: 2

[All AZ-301 Questions]

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains several administrative user accounts.

You need to recommend a solution to identify which administrative user accounts have NOT signed in during the previous 30 days.

Which service should you include in the recommendation?

A. Azure AD Identity Protection

B. Azure Activity Log

C. Azure Advisor

D. Azure AD Privileged Identity Management (PIM)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 19

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	• Review membership of administrative roles and require to provide a justification for continued membership • Get alerts about changes in administrator assignments. • See a history of administrator activation, including which changes administrators made to Azure resources.
Development	• Enable the applications to access Azure Key Vault and retrieve keys for use in code.
Quality Assurance	• Receive temporary administrator access to create and configure additional Web and API applications in the test environment.

You need to recommend the appropriate Azure service for each department request.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Department   **Azure Service**

Security

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection

Development

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection

Quality Assurance

Azure AD Privileged Identity Management
Azure AD Managed Service Identity
Azure AD Connect
Azure AD Identity Protection

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 20

Topic #: 2

[All AZ-301 Questions]

You manage a single-domain, on-premises Active Directory forest named contoso.com. The forest functional level is Windows Server 2016.

You have several on-premises applications that depend on Active Directory.

You plan to migrate the applications to Azure.

You need to recommend an identity solution for the applications. The solution must meet the following requirements:

☞ Eliminate the need for hybrid network connectivity.

☞ Minimize management overhead for Active Directory.

What should you recommend?

A. In Azure, deploy an additional child domain to the contoso.com forest.

B. In Azure, deploy additional domain controllers for the contoso.com domain.

C. Implement a new Active Directory forest in Azure.

D. Implement Azure Active Directory Domain Services (Azure AD DS).

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 21

Topic #: 2

[All AZ-301 Questions]

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You have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory

(Azure AD) group named App2Dev.

You identify the following requirements for Application2:

☞ The members of App2Dev must be prevented from changing the role assignments in Azure.

☞ The members of App2Dev must be able to create new Azure resources required by Application2.

☞ All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: In Project1, create a network security group (NSG) named NSG1. Assign Project1admins the Owner role for NSG1. Assign the App2Dev the Contributor role for NSG1.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 22

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You manage a network that includes an on-premises Active Directory Domain Services domain and an Azure Active Directory (Azure AD).

Employees are required to use different accounts when using on-premises or cloud resources. You must recommend a solution that lets employees sign in to all company resources by using a single account. The solution must implement an identity provider.

You need provide guidance on the different identity providers.

How should you describe each identity provider? To answer, select the appropriate description from each list in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Identity provider	Description
synchronized identity	User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.
	User management occurs on-premises. The on-premises domain controller authenticates employee credentials.
	Both user management and authentication occur in Azure AD.
federated identity	User management occurs on-premises. Azure AD authenticates employees by using on-premises passwords.
	User management occurs on-premises. The on-premises domain controller authenticates employee credentials.
	Both user management and authentication occur in Azure AD.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 23

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure subscription that contains a resource group named RG1.

You create an Azure Active Directory (Azure AD) group named ResearchUsers that contains the user accounts of all researchers.

You need to recommend a solution that meets the following requirements:

☞ The researchers must be allowed to create Azure virtual machines.

☞ The researchers must only be able to create Azure virtual machines by using specific Azure Resource Manager templates.

Solution: On RG1, assign a custom role-based access control (RBAC) role to the ResearchUsers group.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 24

Topic #: 2

[All AZ-301 Questions]

A company deploys Azure Active Directory (Azure AD) Connect to synchronize identity information from their on-premises Active Directory Domain Services (AD DS) directory to their Azure AD tenant. The identity information that is synchronized includes user accounts , credential hashes for authentication (password sync), and group membership. The company plans to deploy several Windows and Linux virtual machines (VMs) to support their applications.

The VMs have the following requirements:

☞ Support domain join, LDAP read, LDAP bind, NTLM and Kerberos authentication, and Group Policy.

☞ Allow users to sign in to the domain using their corporate credentials and connect remotely to the VM by using Remote Desktop.

You need to support the VM deployment.

Which service should you use?

A. Azure AD Domain Services

B. Azure AD Privileged Identity Management

C. Azure AD Managed Service Identity

D. Active Directory Federation Services (AD FS)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 25

Topic #: 2

[All AZ-301 Questions]

DRAG DROP -

A company has an existing web application that runs on virtual machines (VMs) in Azure.

You need to ensure that the application is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruption to the code for the existing web application.

What should you recommend? To answer, drag the appropriate values to the correct items. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

Answer Area

Web Application Firewall (WAF)

Azure Application Gateway

Azure Load Balancer

Azure Traffic Manager

SSL offloading

URL-based content routing

Item	Value
Azure service	
Feature	

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 26

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use the Azure traffic analytics solution in Azure Log Analytics to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 27

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 28

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Install and configure the Log Analytics and Dependency Agents on all VMs. Use the Wire Data solution in Azure Log Analytics to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 29

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.

The API must meet the following requirements:

☞ Implement Azure Functions

☞ Provide public read-only operations

☞ Do not allow write operations

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Topic	Value
Allowed authentication methods	▼
	All methods
	GET only
	GET and POST only
	GET, POST, and OPTIONS only
Authorization level	▼
	Function
	Anonymous
	Admin

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 30

Topic #: 2

[All AZ-301 Questions]

Your network contains an on-premises Active Directory forest named contoso.com. The forest is synced to an Azure Active Directory (Azure AD) tenant named contoso.com and an Azure AD Domain Services (Azure AD DS) domain named contoso-aad.com.

You have an Azure Storage account named Storage1 that contains a file share named Share1.

You configure NTFS permissions on Share1. You plan to deploy a virtual machine that will be used by several users to access Share1.

You need to ensure that the users can access Share1.

Which type virtual machine should you deploy?

A. a virtual machine that runs Windows Server 2016 and is joined to the contoso.com domain

B. a virtual machine that runs Windows 10 and is joined to the contoso-add.com domain

C. a virtual machine that runs Windows 10 and is hybrid Azure AD joined to the contoso.com domain

D. an Azure virtual machine that runs Windows Server 2016 and is joined to the contoso-add.com domain

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 31

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.
Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016.

Five virtual machines will be in the West Europe Azure region and five virtual machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution: Deploy one Azure Key Vault to each region. Create two Azure AD service principals. Configure the virtual machines to use Azure Disk Encryption and specify a different service principal for the virtual machines in each region.

Does this meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 32

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016.

Five virtual machines will be in the West Europe Azure region and five virtual machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution: Export a security key from the on-premises HSM. Create one Azure AD service principal. Configure the virtual machines to use Azure Storage Service Encryption.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 33

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016.

Five virtual machines will be in the West Europe Azure region and five virtual machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution:

☞ Deploy one Azure key vault to each region

☞ Export two security keys from the on-premises HSM

☞ Import the security keys from the HSM into each Azure key vault

Create two Azure AD service principals

▪

☞ Configure the virtual machines to use Azure Disk Encryption

☞ Specify a different service principal for the virtual machines in each region

Does this meet the goal?

     A. Yes

     B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 34

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use Azure Advisor to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 35

Topic #: 2

[All AZ-301 Questions]

Your network contains an Active Directory domain named contoso.com that is federated to an Azure Active Directory (Azure AD) tenant. The on-premises domain contains a VPN server named Server1 that runs Windows Server 2016.

You have a single on-premises location that uses an address space of 172.16.0.0/16.

You need to implement two-factor authentication for users who establish VPN connections to Server1.

What should you include in the implementation?

A. In Azure AD, create a conditional access policy and a trusted named location

B. Install and configure Azure MFA Server on-premises

C. Configure an Active Directory Federation Services (AD FS) server on-premises

D. In Azure AD, configure the authentication methods. From the multi-factor authentication (MFA) service settings, create a trusted IP range

Show Suggested Answer

Actual exam question from Microsoft's AZ-301
Question #: 36
Topic #: 2
[All AZ-301 Questions]

HOTSPOT -
You configure the Diagnostics settings for an Azure SQL database as shown in the following exhibit.

💾 Save   ✖ Discard   🗑 Delete

*Name
Diags

☐ Archive to a storage account

☐ Stream to an event hub

☑ Send to Log Analytics

Log Analytics
OMSWkspace1

LOG

☑ SQLInsights

☑ AutomaticTuning

☑ QueryStoreRuntimeStatistics

☑ QueryStoreWaitStatistics

☑ Errors

☑ DatabaseWaitStatistics

☑ Timeouts

☑ Blocks

☑ Deadlocks

☑ Audit

☑ SQLSecurityAuditEvents

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

To perform real-time reporting by using
Microsoft Power BI, you must first [answer
choice].

▼
clear Send to Log Analytics
clear SQLInsights
select Archive to a storage account
select Stream to an event hub

Diagnostics data can be reviewed in [answer
choice].

▼
Azure Analysis Services
Azure Application Insights
Azure SQL Analytics
Microsoft SQL Server Analysis Services (SSAS)
SQL Health Check

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 37

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment.

Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network.

You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use password hash synchronization and select the Enable single sign-on option.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 38

Topic #: 2

[All AZ-301 Questions]

You have an Azure subscription that contains a custom application named Application1. Application1 was developed by an external company named Fabrikam,

Ltd. Developers at Fabrikam were assigned role-based access control (RBAC) permissions to the Application1 components. All users are licensed for the

Microsoft 365 E5 plan.

You need to recommend a solution to verify whether the Fabrikam developers still require permissions to Application1. The solution must meet the following requirements:

☞ To the manager of the developers, send a monthly email message that lists the access permissions to Application1.

☞ If the manager does not verify an access permission, automatically revoke that permission.

☞ Minimize development effort.

What should you recommend?

A. In Azure Active Directory (AD) Privileged Identity Management, create a custom role assignment for the Application1 resources

B. Create an Azure Automation runbook that runs the Get-AzureADUserAppRoleAssignment cmdlet

C. Create an Azure Automation runbook that runs the Get-AzureRmRoleAssignment cmdlet

D. In Azure Active Directory (Azure AD), create an access review of Application1

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 39

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment.

Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network.

You need to enable single sign-on (SSO) for company users.

Solution: Install and configure an Azure AD Connect server to use pass-through authentication and select the Enable single sign-on option.

Does the solution meet the goal?

   A. Yes

   B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 40

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company has an on-premises Active Directory Domain Services (AD DS) domain and an established Azure Active Directory (Azure AD) environment.

Your company would like users to be automatically signed in to cloud apps when they are on their corporate desktops that are connected to the corporate network.

You need to enable single sign-on (SSO) for company users.

Solution: Configure an AD DS server in an Azure virtual machine (VM). Configure bidirectional replication.

Does the solution meet the goal?

   A. Yes

   B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 41

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You are building an application that will run in a virtual machine (VM). The application will use Managed Service Identity (MSI).

The application uses Azure Key Vault, Azure SQL Database, and Azure Cosmos DB.

You need to ensure the application can use secure credentials to access these services.

Which authorization methods should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Functionality	Authorization method
Azure Key Vault	Hash-based message authentication code (HMAC)
	Managed Service Identity (MSI)
	Role-Based Access Controls (RBAC)
	HTTPS encryption
Azure SQL	Hash-based message authentication code (HMAC)
	Managed Service Identity (MSI)
	Role-Based Access Controls (RBAC)
	HTTPS encryption
Cosmos DB	Hash-based message authentication code (HMAC)
	Managed Service Identity (MSI)
	Role-Based Access Controls (RBAC)
	HTTPS encryption

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 42

Topic #: 2

[All AZ-301 Questions]

You are designing a security solution for a company's Azure Active Directory (Azure AD). The company currently uses Azure AD Premium for all employees.
Contractors will periodically access the corporate network based on demand.
You must ensure that all employees and contractors are required to log on by using two-factor authentication. The solution must minimize costs.
You need to recommend a solution.
What should you recommend?

    A. Purchase Azure Multi-Factor Authentication licenses for the employees and the contractors

    B. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each authentication type

    C. Use the Multi-Factor Authentication provider in Azure and configure the usage model for each enabled user

    D. Purchase Azure Multi-Factor Authentication licenses for the contractors only

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 43

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AZD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts.

You discover several login attempts to the Azure portal from countries where administrative users do NOT work.

You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: Create an Access Review for Group1.

Does this solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 44

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AZD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts.

You discover several login attempts to the Azure portal from countries where administrative users do NOT work.

You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: You implement an access package.

Does this solution meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 45

Topic #: 2

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Active Directory (Azure AZD) tenant named contoso.com. The tenant contains a group named Group1. Group1 contains all the administrative user accounts.

You discover several login attempts to the Azure portal from countries where administrative users do NOT work.

You need to ensure that all login attempts to the Azure portal from those countries require Azure Multi-Factor Authentication (MFA).

Solution: Implement Azure AD Privileged Identity Management.

Does this solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 46

Topic #: 2

[All AZ-301 Questions]

Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement.

The company's compliance team creates automatic alerts by using Azure Monitor.

You need to recommend a solution to apply the alerts automatically when new subscriptions are added to the Enterprise Agreement.

What should you include in the recommendation?

    A. Azure Automation runbooks

    B. Azure Log Analytics alerts

    C. Azure Monitor action groups

    D. Azure Resource Manager templates

    E. Azure Policy

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 47

Topic #: 2

[All AZ-301 Questions]

You store web access logs data in Azure Blob storage.

You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month.

What should you include in the recommendation?

A. Microsoft SQL Server Migration Assistant (SSMA)

B. Azure Data Factory

C. Data Migration Assistant

D. AzCopy

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 48

Topic #: 2

[All AZ-301 Questions]

Your company has the offices shown in the following table.

Location	IP address space	Public NAT segment
Montreal	10.10.0.0/16	190.15.1.0/24
Seattle	172.16.0.0/16	194.25.2.0/24

The network contains an Active Directory domain named contoso.com that is synced to Azure Active Directory (Azure AD).

All users connect to an application hosted in Microsoft 365.

You need to recommend a solution to ensure that all the users use Azure Multi-Factor Authentication (MFA) to connect to the application from one of the offices.

What should you include in the recommendation?

    A. a named location and two Microsoft Cloud App Security policies

    B. a conditional access policy and two virtual networks

    C. a virtual network and two Microsoft Cloud App Security policies

    D. a conditional access policy and two named locations

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 49

Topic #: 2

[All AZ-301 Questions]

HOTSPOT -

You have an Azure subscription that contains 300 Azure virtual machines that run Windows Server 2016.

You need to centrally monitor all warning events in the System logs of the virtual machines.

What should you include in the solutions? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Resource to create in Azure:

An event hub
A Log Analytics workspace
A search service
A storage account

Configuration to perform on the virtual machines:

Create event subscriptions
Configure Continuous delivery
Install the Microsoft Monitoring Agent
Modify the membership of the Event Log Readers Groups

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 3

[All AZ-301 Questions]

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transactions. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What would you include in the recommendation?

A. Traffic Manager

B. Azure Notification Hubs

C. Azure Blob storage

D. Azure Queue storage

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 3

[All AZ-301 Questions]

You have an Azure subscription that contains an Azure Cosmos DB account.

You need to recommend a solution to generate an alert from Azure Log Analytics when a request charge for a query exceeds 50 request units more than 20 times within a 15-minute window.

What should you recommend?

A. Create a search query to identify when requestCharge_s exceeds 50. Configure an alert threshold of 20 and a period of 15.

B. Create a search query to identify when duration_s exceeds 20 and requestCharge_s exceeds 50. Configure a period of 15.

C. Create a search query to identify when requestCharge_s exceeds 20. Configure a period of 15 and a frequency of 20.

D. Create a search query to identify when duration_s exceeds 20. Configure a period of 15.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 3

[All AZ-301 Questions]

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.

You need to recommend a solution that meets the following requirements:

☞ The use of encryption keys is audited.

☞ All the data is encrypted at rest always.

☞ You manage the encryption keys, not Microsoft.

What should you include in the recommendation?

    A. BitLocker Drive Encryption (BitLocker)

    B. Azure Storage Service Encryption

    C. client-side encryption

    D. Azure Disk Encryption

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 3

[All AZ-301 Questions]

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

☞ The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.

☞ Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

☞ Whenever possible, minimize management overhead for the migrated databases.

☞ Minimize the number of database changes required to facilitate the migration.

Ensure that users can authenticate by using their Active Directory credentials.

.

What should you include in the recommendation?

    A. Azure SQL Database single databases

    B. Azure SQL Database Managed Instance

    C. Azure SQL Database elastic pools

    D. SQL Server 2016 on Azure virtual machines

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 3

[All AZ-301 Questions]

DRAG DROP -

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data. Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine.

Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Policies

None
ReadOnly
ReadWrite

Answer Area

< >

Log: | Policy |

Data: | Policy |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 3

[All AZ-301 Questions]

You plan to create an Azure Cosmos DB account that uses the SQL API. The account will contain data added by a web application. The web application will send data daily.

You need to recommend a notification solution that meets the following requirements:

☞ Sends email notification when data is received from IoT devices.

☞ Minimizes compute cost.

What should you include in the recommendation?

    A. Deploy an Azure logic app that has the Azure Cosmos DB connector configured to use a SendGrid action.

    B. Deploy a function app that is configured to use the Consumption plan and a SendGrid binding.

    C. Deploy an Azure logic app that has a SendGrid connector configured to use an Azure Cosmos DB action.

    D. Deploy a function app that is configured to use the Consumption plan and an Azure Event Hubs binding.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 3

[All AZ-301 Questions]

You have Azure virtual machines that run a custom line-of-business web application.

You plan to use a third-party solution to parse event logs from the virtual machines stored in an Azure storage account.

You need to recommend a solution to save the event logs from the virtual machines to the Azure Storage account. The solution must minimize costs and complexity.

What should you include in the recommendation?

      A. Azure VM Diagnostics Extension

      B. Azure Monitor

      C. event log subscriptions

      D. Azure Log Analytics

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 3

[All AZ-301 Questions]

DRAG DROP -

You are planning an Azure solution that will host production databases for a high-performance application. The solution will include the following components:

✑ Two virtual machines that will run Microsoft SQL Server 2016, will be deployed to different data centers in the same Azure region, and will be part of an Always
On availability group.

✑ SQL Server data that will be backed up by using the Automated Backup feature of the SQL Server IaaS Agent Extension (SQLIaaSExtension)

You identify the storage priorities for various data types as shown in the following table.

Data type	Storage priority
Operating system	Speed and availability
Databases and logs	Speed and availability
Backups	Lowest cost

Which storage type should you recommend for each data type? To answer, drag the appropriate storage types to the correct data types. Each storage type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Storage Types

A geo-redundant storage (GRS) account

A locally-redundant storage (LRS) account

A premium managed disk

A standard managed disk

Answer Area

Operating system: [   ]

Databases and logs: [   ]

Backups: [   ]

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 3

[All AZ-301 Questions]

HOTSPOT -

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Log Analytics Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute.

You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario	Azure Monitoring Service
Analyze Network Security Group (NSG) flow logs for VMs attempting Internet access.	▼ Azure Traffic Analytics / Azure ExpressRoute Monitor / Azure Service Endpoint Monitor / Azure DNS Analytics
Visualize the VMs with their different processes and dependencies on other computers and external processes.	▼ Azure Service Map / Azure Activity Log / Azure Service Health / Azure Advisor

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 3

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a resources group for each resource type. Assign tags to each resource group.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 3

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Place all resources in the same resource group. Assign tags to each resource.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 12

Topic #: 3

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a new subscription for each department.

Does this meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 13

Topic #: 3

[All AZ-301 Questions]

HOTSPOT -

You plan to deploy logical Azure SQL Database servers to the East US Azure region and the West US Azure region. Each server will contain 20 databases. Each database will be accessed by a different user who resides in a different on-premises location. The databases will be configured to use active geo-replication.

You need to recommend a solution that meets the following requirements:

☞ Restricts user access to each database

☞ Restricts network access to each database based on each user's respective location

☞ Ensures that the databases remain accessible from client applications if the local Azure region fails

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configure user access by using:

| Azure PowerShell |
| The REST API |
| Transact-SQL |

Configure database-level firewall rules by using:

| Azure PowerShell |
| The REST API |
| Transact-SQL |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

You plan to deploy the backup policy shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To access the files, you must [answer choice].

generate a snapshot
modify the access tier
modify the blob type

The files will be stored [answer choice].

at the highest storage cost
at the lowest data retrieval cost
at the lowest storage cost

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 4

[All AZ-301 Questions]

You plan to use Azure Site Recovery to protect several on-premises physical server workloads. Each server workload is independent of the other. The workloads are stateless.

You need to recommend a failover strategy to ensure that if the on-premises data center fails, the workloads are available in Azure as quickly as possible.

Which failover strategy should you include in the recommendation?

A. Latest

B. Latest app-consistent

C. Latest multi-VM processed

D. Latest processed

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 4

[All AZ-301 Questions]

DRAG DROP -

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting applications in the company's on-premises data center:

☞ The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery time objective (RTO) is 10 minutes.

☞ The reporting application must be able to recover point-in-time data at a daily granularity. The RTO is eight hours.

☞ The sales application must be able to fail over to a second on-premises data center.

You need to recommend which Azure services meet the business continuity and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct applications. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Actions

Azure Backup only

Azure Site Recovery only

Azure Site Recovery and Azure Backup

Answer Area

Sales: | Service or Services |

Finance: | Service or Services |

Reporting: | Service or Services |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 4

[All AZ-301 Questions]

You plan to move a web application named App1 from an on-premises data center to Azure.

App1 depends on a custom COM component that is installed on the host server.

You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:

☞ App1 must be available to users if an Azure data center becomes unavailable.

☞ Costs must be minimized.

What should you include in the recommendation?

    A. In two Azure regions, deploy a Traffic Manager profile and a web app.

    B. In two Azure regions, deploy a load balancer and a virtual machine scale set.

    C. Deploy a load balancer and a virtual machine scale set across two availability zones.

    D. In two Azure regions, deploy a load balancer and a web app.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 4

[All AZ-301 Questions]

You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows.

You need to recommend a business continuity solution for the payroll system. The solution must meet the following requirements:

☞ Minimize costs.

☞ Provide business continuity if an Azure region fails.

☞ Provide a recovery time objective (RTO) of 120 minutes.

☞ Provide a recovery point objective (RPO) of five minutes.

What should you include in the recommendation?

   A. Microsoft System Center Data Protection Manager (DPM)

   B. Azure Site Recovery

   C. unmanaged disks that use geo-redundant storage (GRS)

   D. Azure Backup

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 4

[All AZ-301 Questions]

The accounting department at your company migrates to a new financial accounting software. The accounting department must keep file-based database backups for seven years for compliance purposes. It is unlikely that the backups will be used to recover data.
You need to move the backups to Azure. The solution must minimize costs.
Where should you store the backups?

    A. Azure SQL Database

    B. Azure Blob storage that uses the Archive tier

    C. a Recovery Services vault

    D. Azure Blob storage that uses the Cool tier

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

Your company has two on-premises sites in New York and Los Angeles and Azure virtual networks in the East US Azure region and the West US Azure region.

Each on-premises site has Azure ExpressRoute circuits to both regions.

You need to recommend a solution that meets the following requirements:

☞ Outbound traffic to the Internet from workloads hosted on the virtual networks must be routed through the closest available on-premises site.

☞ If an on-premises site fails, traffic from the workloads on the virtual networks to the Internet must reroute automatically to the other site.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Routing from the virtual networks to the on-premises locations must be configured by using:	▼
	Azure default routes
	Border Gateway Protocol (BGP)
	User-defined routes

The automatic routing configuration following a failover must be handled by using:	▼
	Border Gateway Protocol (BGP)
	Hot Standby Routing Protocol (HSRP)
	Virtual Router Redundancy Protocol (VRRP)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 4

[All AZ-301 Questions]

You plan to store data in Azure Blob storage for many years. The stored data will be accessed rarely.

You need to ensure that the data in Blob storage is always available for immediate access. The solution must minimize storage costs.

Which storage tier should you use?

A. Cool

B. Archive

C. Hot

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

You have a virtual machine scale set named SS1.

You configure autoscaling as shown in the following exhibit.

Default   Profile1 ✎

| Delete warning | The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale. |

| Scale mode | ⦿ Scale based on a metric   ◯ Scale to a specific instance count |

	Scale out			
Rules	When	SS1	(Average) Percentage CPU > 75	Increase instance count by 3
	Scale in			
	When	SS1	(Average) Percentage CPU < 25	Decrease instance count by 2

+ Add a rule

| | Minimum ⓘ | Maximum ⓘ | Default ⓘ |
| Instance limits | | | |

| Schedule | This scale condition is executed when none of the other scale condition(s) match |

You configure the scale out and scale in rules to have a duration of 10 minutes and a cool down time of 10 minutes.

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

If SS1 scales to nine virtual machines, what is the minimum amount of time before SS1 will scale up?

| ▼ |
| 10 minutes |
| 20 minutes |
| 30 minutes |
| 60 minutes |

If SS1 scales to nine virtual machines, and then the average processor utilization is 30 percent for one hour, how many virtual machines will be in SS1?

| ▼ |
| 1 |
| 3 |
| 6 |
| 9 |
| 12 |
| 15 |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

You have 20 Azure virtual machines that run Windows Server 2016 based on a custom virtual machine image. Each virtual machine hosts an instance of a VSS-capable web app that was developed in-house. Each instance is accessed by using a public endpoint. Each instance uses a separate database. The average database size is 200 GB.

You need to design a disaster recovery solution for individual instances. The solution must meet the following requirements:

☞ Provide a recovery time objective (RTO) of six hours

☞ Provide a recovery point objective (RPO) of eight hours

☞ Support recovery to a different Azure region

☞ Support VSS-based backups

☞ Minimize costs

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Disaster recovery solution:

Azure Site Recovery
Scheduled backups by using an Azure Backup agent
Scheduled backups by using Windows Server Backup
Scheduled virtual machine-level backups

Storage type:

A Recovery Services vault
Premium managed disks
Unmanaged disks in an storage account that uses RA-GRS

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

You plan to deploy the backup policy shown in the following exhibit.

Policy1

⊞ Associated items   🗑 Delete   💾 Save   ✕ Discard

Backup frequency

| Daily ▾ | 6:00 PM ▾ | (UTC) Coordinated Universal Time ▾ |

Retention range

☑ Retention of daily backup point.

* At   For
| 6:00 PM ▾ | 90 | Day(s)

☑ Retention of weekly backup point.

* On   * At   For
| Sunday ▾ | 6:00 PM ▾ | 26 | Week(s)

☑ Retention of monthly backup point.

Week Based | Day Based

* On   * Day   * At   For
| First ▾ | Sunday ▾ | 6:00 PM ▾ | 36 | Month(s)

☐ Retention of yearly backup point.

Not Configured

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Virtual machines that are backed up using the policy can be recovered for up to a maximum of **[answer choice].**

▼
90 days
26 weeks
36 months
45 months

The minimum recovery point objective (RPO) for virtual machines that are backed up by using the policy is **[answer choice].**

▼
1 hour
1 day
1 week
1 month
1 year

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 12

Topic #: 4

[All AZ-301 Questions]

HOTSPOT -

You have databases in Azure as shown in the following table.

Name	Type	Pricing tier
SQLdb1	Azure SQL Database	Basic
SQLdb2	Azure SQL Database	Standard
SQLdb3	Azure SQL Database	Premium
DW1	Azure SQL Data Warehouse	*Not available*

You are designing a data retention policy.

You need to identify which databases can retain a daily backup for up to 35 days and which databases can retain monthly backups for up to 120 months.

Which databases should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Databases that can retain a daily backup for up to 35 days:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Databases that can retain monthly backups for up to 120 months:

- DW1 only
- SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2 and SQLdb3 only
- SQLdb1, SQLdb2, SQLdb3 and DW1

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 5

[All AZ-301 Questions]

DRAG DROP -

You plan to import data from your on-premises environment into Azure. The data is shown in the following table.

On-premises source	Azure target
A Microsoft SQL Server 2012 database	An Azure SQL database
A table in a Microsoft SQL Server 2008 database	An Azure Cosmos DB account that uses the SQL API

What should you recommend using to migrate the data? To answer, drag the appropriate tools to the correct data sources. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Tools

AzCopy

Azure Cosmos DB Data Migration Tool

Data Management Gateway

Data Migration Assistant

Answer Area

From the SQL Server 2012 database:

Tool

From the table in the SQL Server 2008 database:

Tool

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 5

[All AZ-301 Questions]

You have an on-premises deployment of MongoDB.

You plan to migrate MongoDB to an Azure Cosmos DB account that uses the MongoDB API.

You need to recommend a solution for migrating MongoDB to Azure Cosmos DB.

What should you include in the recommendation?

A. mongorestore

B. Data Migration Assistant

C. Azure Storage Explorer

D. Azure Cosmos DB Data Migration Tool

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 5

[All AZ-301 Questions]

Your company plans to publish APIs for its services by using Azure API Management.

You discover that service responses include the AspNet-Version header.

You need to recommend a solution to remove AspNet-Version from the response of the published APIs.

What should you include in the recommendation?

    A. a new product

    B. a modification to the URL scheme

    C. a new policy

    D. a new revision

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 5

[All AZ-301 Questions]

Your company has 300 virtual machines hosted in a Vmware environment. The virtual machines vary in size and have various utilization levels.

You plan to move all the virtual machines to Azure.

You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.

What should you use to make the recommendation?

A. Azure Advisor

B. Azure Migrate

C. Azure Pricing calculator

D. Azure Cost Management

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 5

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution:

Deploy the web application to a web app hosted in a Standard App Service plan. Create and configure an Azure App Service Hybrid Connections endpoint.

On the on-premises network, deploy the Hybrid Connection Manager. Configure the Hybrid Connection Manager to access both the Hybrid Connection endpoint and the SQL Server instance.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 5

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company has custom ASP.NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You create an Azure virtual network, public IP address, and load balancer. Then add virtual machines (VMs) to the solution and deploy individual containers on them.

Does the solution meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 5

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company has custom ASP.NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: Deploy a Kubernetes cluster that has the desired number of instances of the applications.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 5

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company has custom ASP.NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You deploy each application to an Azure Container instance.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 5

[All AZ-301 Questions]

HOTSPOT -

You have a web application that uses a MongoDB database. You plan to migrate the web application to Azure.

You must migrate to Cosmos DB while minimizing code and configuration changes.

You need to design the Cosmos DB configuration.

What should you recommend? To answer, select the appropriate values in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Option	Value
MongoDB compatibility	Database / API / Collection / Account
API	Cassandra API / DocumentDB API / Graph API / MongoDB API / Table API

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 5

[All AZ-301 Questions]

You manage an application instance. The application consumes data from multiple databases. Application code references database tables using a combination of the server, database, and table name.

You need to migrate the application instance to Azure.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

    A. SQL Server Stretch Database

    B. SQL Server in an Azure virtual machine

    C. Azure SQL Database

    D. SQL Managed Instance

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 5

[All AZ-301 Questions]

You have 100 Microsoft SQL Server Integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations.

You plan to migrate the 10 on-premises databases to Azure SQL Database.

You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.

What should you include in the recommendation?

A. SQL Server Migration Assistant (SSMA)

B. Azure Data Factory

C. Data Migration Assistant

D. Azure Data Catalog

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 12

Topic #: 5

[All AZ-301 Questions]

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

A company has custom ASP.NET and Java applications that run on old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You deploy each application to an Azure Web App that has container support.

Does the solution meet the goal?

   A. Yes

   B. No

Show Suggested Answer

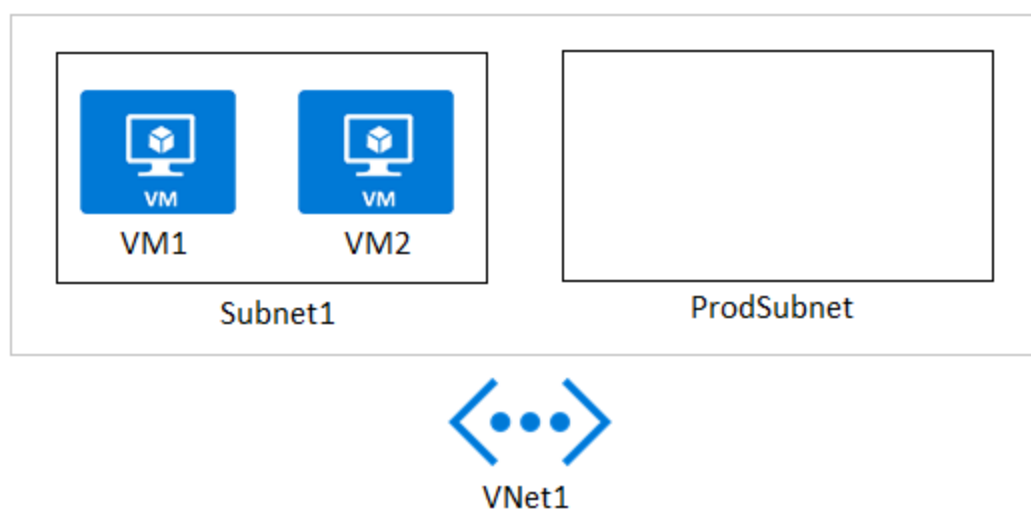Actual exam question from Microsoft's AZ-301

Question #: 13

Topic #: 5

[All AZ-301 Questions]

HOTSPOT -

Your company develops a web service that is deployed to an Azure virtual machine named VM1. The web service allows an API to access real-time data from VM1.

The current virtual machine deployment is shown in the Deployment exhibit. (Click the Deployment tab).

The chief technology officer (CTO) sends you the following email message: "Our developers have deployed the web service to a virtual machine named VM1. Testing has shown that the APIs is accessible from VM1 and VM2. Our partners must be able to connect to the API over the Internet. Partners will use this data in application that they develop".

You deploy an Azure API Management (APIM) service. The relevant API Management configuration is shown in the API exhibit. (Click the API tab).

Virtual network	Off	External	Internal

LOCATION	VIRTUAL NETWORK	SUBNET
North Europe	VNet1	ProdSubnet

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The API is available to partners over the Internet	○	○
The APIM instance can access real-time from VM1	○	○
A VPN gateway is required for partner access	○	○

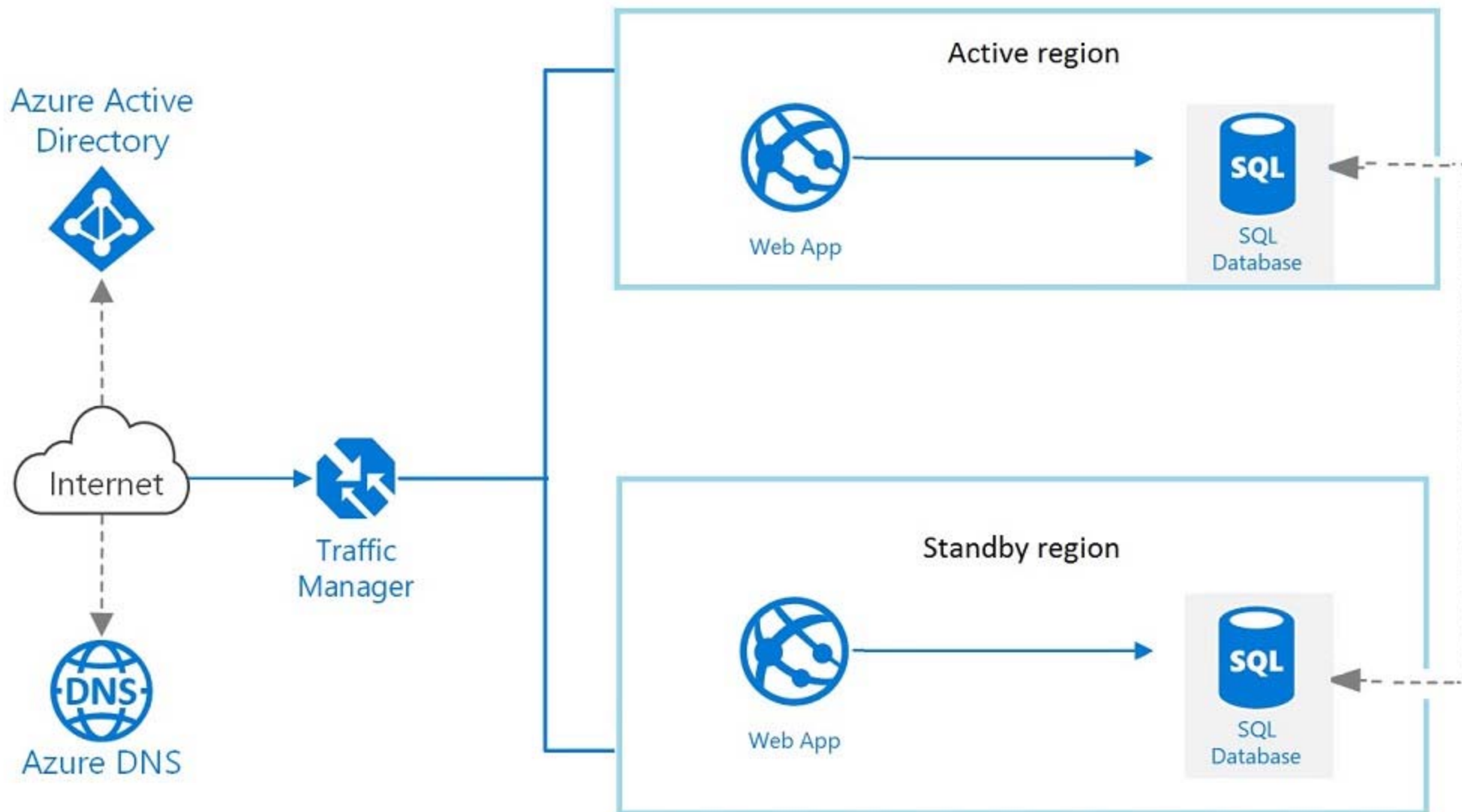Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You have the application architecture shown in the following exhibit.

Use the drop-down menus to select choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To change the front end to an ative/active architecture in which both regions process incoming connections, you must **[answer choice]**.

▼
add a load balancer to each region
add an Azure Application Gateway to each region
add an Azure content delivery network (CDN)
modify the Traffic Manager routing method

To control the threshold for failing over the front end to the standby region, you must configure the **[answer choice].**

▼
an Application Insights availability test
Azure SQL Database failover groups
Connection Monitor in Azure Network Watcher
Endpoint monitor settings in Traffic Manager

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You are designing a solution for a stateless front-end application named Application1. Application1 will be hosted on two Azure virtual machines named VM1 and VM2.

You plan to load balance connections to VM1 and VM2 from the Internet by using one Azure load balancer.

You need to recommend the minimum number of required public IP addresses.

How many public IP addresses should you recommend using for each resource? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Load balancer:
▼
0
1
2
3

VM1:
▼
0
1
2
3

VM2:
▼
0
1
2
3

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 6

[All AZ-301 Questions]

You need to recommend a data storage solution that meets the following requirements:

☞ Ensures that application can access the data by using a REST connection

Hosts 20 independent tables of varying sizes and usage patterns

▪

☞ Automatically replicates the data to a second Azure region

☞ Minimizes costs

What should you recommend?

    A. an Azure SQL Database elastic database pool that uses active geo-replication

    B. tables in an Azure Storage account that uses geo-redundant storage (GRS)

    C. tables in an Azure Storage account that use read-access geo-redundant storage (RA-GR)

    D. an Azure SQL database that uses active geo-replication

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 4

Topic #: 6

[All AZ-301 Questions]

You deploy two instances of an Azure web app. One instance is in the East US Azure region and the other instance is in the West US Azure region. The web app uses Azure Blob storage to deliver large files to end users.

You need to recommend a solution for delivering the files to the users. The solution must meet the following requirements:

☞ Ensure that the users receive files from the same region as the web app that they access.

☞ Ensure that the files only need to be updated once.

☞ Minimize costs.

What should you include in the recommendation?

    A. Azure File Sync

    B. Distributed File System (DFS)

    C. read-access geo-redundant storage (RA-GRS)

    D. geo-redundant storage (GRS)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 5

Topic #: 6

[All AZ-301 Questions]

Your company has an on-premises Windows HPC cluster. The cluster runs an intrinsically parallel, compute-intensive workload that performs financial risk modelling.
You plan to migrate the workload to Azure Batch.

You need to design a solution that will support the workload. The solution must meet the following requirements:

☞ Support the large-scale parallel execution of Azure Batch jobs.

☞ Minimize cost.
What should you include in the solution?

    A. Basic A-series virtual machines

    B. low-priority virtual machines

    C. burstable virtual machines

    D. Azure virtual machine sizes that support the Message Passing Interface (MPI) API

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 6

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

Your company has users who work remotely from laptops.

You plan to move some of the applications accessed by the remote users to Azure virtual machines. The users will access the applications in Azure by using a point-to-site VPN connection. You will use certificates generated from an on-premises-based certification authority (CA).

You need to recommend which certificates are required for the deployment.

What should you include in the recommendation? To answer, drag the appropriate certificates to the correct targets. Each certificate may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Certificates

| A root CA certificate that has the private key |
| A root CA certificate that has the public key |
| A user certificate that has the private key |
| A user certificate that has the public key |

Answer Area

Trusted Root Certification Authorities certificate store on each laptop:	Certificate
The users' Personal store on each laptop:	Certificate
The Azure VPN gateway:	Certificate

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 7

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Log Analytics design an alerting strategy for security-related events.

Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Tables

AzureActivity

| AzureDiagnostics |

| Event |

| Syslog |

Answer Area

Events from Windows event logs:	Table
Events from Linux system logging:	Table

Show Suggested Answer
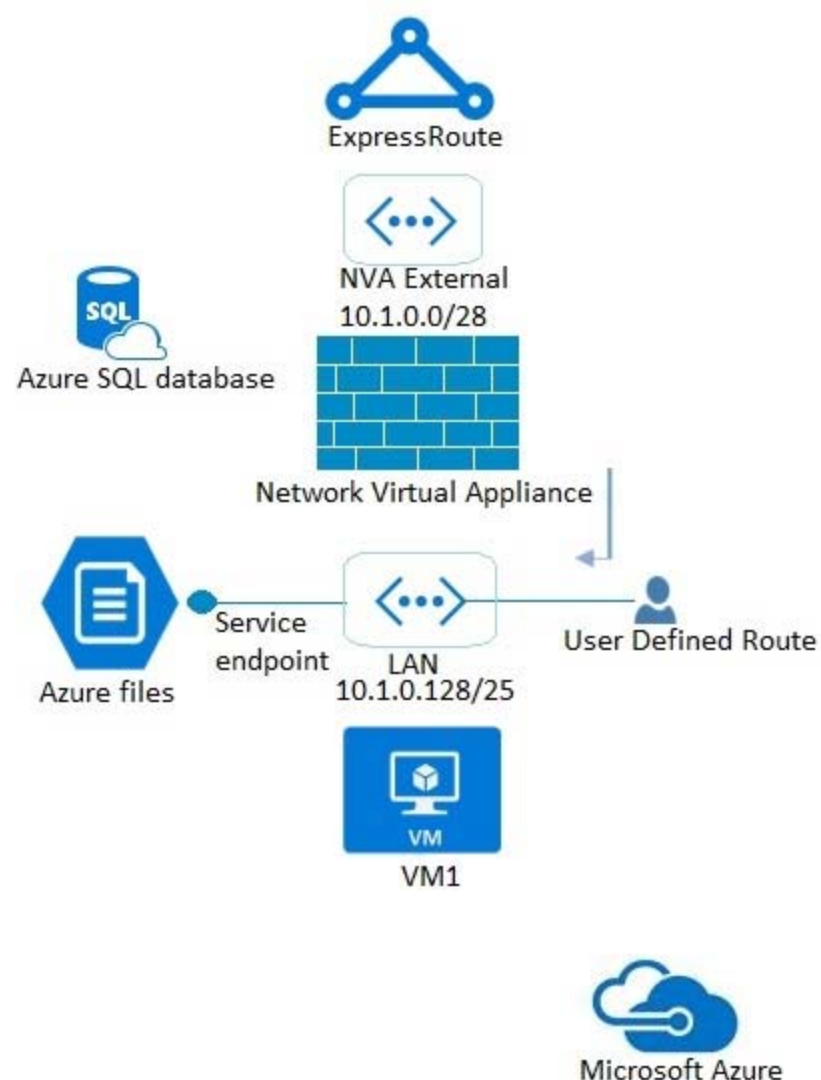
Actual exam question from Microsoft's AZ-301

Question #: 8

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You have the network topology shown in the following exhibit.

You have a user-defined route that has a default route of 0.0.0.0/0 and the next hop set to the network virtual appliance.

You configure the Azure Storage account to use virtual network service endpoints.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
From VM1, traffic destined to the Azure Key Management Service will be routed to the network virtual appliance.	○	○
From VM1, traffic destined to the Azure file share will be routed to the Internet.	○	○
From VM1, traffic destined to the Azure SQL database will be routed to the Internet.	○	○

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 9

Topic #: 6

[All AZ-301 Questions]

You are designing a container solution in Azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private. The two containers will be deployed together as a group.

You need to recommend a compute service for the containers. The solution must minimize costs and maintenance overhead.

What should you include in the recommendation?

    A. Azure Service Fabric

    B. Azure Container Service

    C. Azure Kubernetes Service (AKS)

    D. Azure Container Instances

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 10

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

Your company has three branch offices and an Azure subscription. Each branch office contains a Hyper-V host that hosts application servers.

You need to recommend a storage solution for the branch offices. The solution must ensure that the application servers can connect to a central storage device by using iSCSI connections. Data saved to the iSCSI storage device from the application servers must be uploaded to Azure automatically.

Which components should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Branch office Hyper-V hosts: ▼

Azure File Sync agent
Azure Site Recovery agent
Azure StorSimple Virtual Array
Distributed File System Replication

Azure subscription: ▼

Azure file share
Azure File Sync
Azure Site Recovery vault
Azure Storage account

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 11

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

You have an on-premises network that uses an IP address space of 172.16.0.0/16.

You plan to deploy 25 virtual machines to a new Azure subscription.

You identify the following technical requirements:

☞ All Azure virtual machines must be placed on the same subnet named Subnet1.

☞ All the Azure virtual machines must be able to communicate with all on-premises servers.

☞ The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnets. Each network address may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Network Addresses

| 172.16.0.0/16 |

| 172.16.1.0/28 |

| 192.168.0.0/24 |

| 192.168.1.0/28 |

Answer Area

Subnet1:   Network address

Gateway subnet: Network address

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 12

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create an Azure WebJob that runs the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 13

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create an Azure Function to run the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 14

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create a Logic App to run the image processing application every hour.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 15

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in a Premium App Service plan. Configure VNET Integration for the App Service plan.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 16

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application by using an Azure Kubernetes Service (AKS) container on VNET1.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 17

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016. The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in an isolated App Service plan on VNET1.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 18

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

☞ Provide access to the full .NET framework.

☞ Provide redundancy if an Azure region fails.

☞ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy a virtual machine scale set that uses autoscaling.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 19

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

☞ Provide access to the full .NET framework.

☞ Provide redundancy if an Azure region fails.

☞ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 20

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

☞ Provide access to the full .NET framework.

☞ Provide redundancy if an Azure region fails.

☞ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 21

Topic #: 6

[All AZ-301 Questions]

You plan to deploy an API by using Azure API Management.

You need to recommend a solution to protect the API from a distributed denial of service (DDoS) attack.

What should you recommend?

    A. Create network security groups (NSGs).

    B. Enable quotas.

    C. Enable rate limiting.

    D. Strip the Powered-By responsible header.

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 22

Topic #: 6

[All AZ-301 Questions]

You manage on-premises networks and Azure virtual networks.

You need a secure private connection between the on-premises networks and the Azure virtual networks. The connection must offer a redundant pair of cross connections to provide high availability.

What should you recommend?

   A. ExpressRoute

   B. Azure Load Balancer

   C. virtual network peering

   D. VPN Gateway

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 23

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

An organization has an on-premises server that runs Windows Server 2003. The server hosts an IIS-based stateless web application that uses forms authentication. The application consists of classic Active Server Pages (ASP) pages and third-party components (DLLs) that are registered in the Windows registry.

The deployment process for the web application is manual and is prone to errors. The deployment process makes it difficult to roll out updates, scale out, and recover after failures.

You need to design a modernization approach for the web application that meets the following requirements:

☞ Improve the deployment process.

☞ Ensure that the application can run in the cloud.

☞ Minimize changes to application code.

☞ Minimize administrative effort required to implement the modernization solution.

What should you recommend? To answer, drag the appropriate actions to the correct approaches. Each action may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth point.

Select and Place:

Answer Area

Actions

| Package the existing application in a container. |

| Configure the application to run in a web role. |

| Implement Azure functions. |

| Use Azure Container services. |

| Use a Web application. |

Approach	Action
Modernization	
Deployment	

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 24

Topic #: 6

[All AZ-301 Questions]

You use a virtual network to extend an on-premises IT environment into the cloud. The virtual network has two virtual machines (VMs) that store sensitive data.

The data must only be available using internal communication channels. Internet access to those VMs is not permitted.

You need to ensure that the VMs cannot access the Internet.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

    A. network interface (NIC)

    B. Source Network Address Translation (SNAT)

    C. Azure ExpressRoute

    D. Network Security Groups (NSG)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 25

Topic #: 6

[All AZ-301 Questions]

Your company plans to migrate its on-premises data to Azure.

You need to recommend which Azure services can be used to store the data. The solution must meet the following requirements:

☞ Encrypt all data while at rest.

☞ Encrypt data only by using a key generated by the company.

Which two possible services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

    A. Azure Table storage

    B. Azure Backup

    C. Azure Blob storage

    D. Azure Queue storage

    E. Azure Files

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 26

Topic #: 6

[All AZ-301 Questions]

You architect a solution that calculates 3D geometry from height-map data.

You have the following requirements:

☞ Perform calculations in Azure.

☞ Each node must communicate data to every other node.

☞ Maximize the number of nodes to calculate multiple scenes as fast as possible.

☞ Require the least amount of effort to implement.

You need to recommend a solution.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Create a render farm that uses Azure Batch.

B. Enable parallel file systems on Azure.

C. Enable parallel task execution on compute nodes.

D. Create a render farm that uses virtual machine (VM) scale sets.

E. Create a render farm that uses virtual machines (VMs).

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 27

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You are designing an Azure web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region.

You need to recommend a solution for the web app. The solution must meet the following requirements:

☞ Users must always access the web app from the North Europe region, unless the region fails.

☞ The web app must be available to users if an Azure region is unavailable.

☞ Deployment costs must be minimized.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Request routing method: ▼

A Traffic Manager profile
Azure Application Gateway
Azure Load Balancer

Request routing configuration: ▼

Cookie-based session affinity
Performance traffic routing
Priority traffic routing
Weighted traffic routing

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 28

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 29

Topic #: 6

[All AZ-301 Questions]

You are developing a web application that provides streaming video to users. You configure the application to use continuous integration and deployment.

The app must be highly available and provide a continuous streaming experience for users.

You need to recommend a solution that allows the application to store data in a geographical location that is closest to the user.

What should you recommend?

      A. Azure App Service Web Apps

      B. Azure App Service Isolated

      C. Azure Redis Cache

      D. Azure Content Delivery Network (CDN)

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 30

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

Your company deploys an Azure App Service Web App.

During testing the application fails under load. The application cannot handle more than 100 concurrent user sessions. You enable the Always On feature. You also configure auto-scaling to increase counts from two to 10 based on HTTP queue length.

You need to improve the performance of the application.

Which solution should you use for each application scenario? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Scenario	Solution
Store content close to end users.	▼
	Azure Redis Cache
	Azure Traffic Manager
	Azure Content Delivery Network
	Azure Application Gateway
Store content close to the application.	▼
	Azure Redis Cache
	Azure Traffic Manager
	Azure Content Delivery Network
	Azure Application Gateway

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 31

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

☞ Provide access to the full .NET framework.

☞ Provide redundancy if an Azure region fails.

☞ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy a web app in an Isolated App Service plan.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 32

Topic #: 6

[All AZ-301 Questions]

You are designing an Azure solution.

The network traffic for the solution must be securely distributed by providing the following features:

HTTPS protocol -

☞ Round robin routing

☞ SSL offloading

You need to recommend a load balancing option.

What should you recommend?

    A. Azure Load Balancer

    B. Azure Traffic Manager

    C. Azure Internal Load Balancer (ILB)

    D. Azure Application Gateway

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 33

Topic #: 6

[All AZ-301 Questions]

You manage a solution in Azure.

You must collect usage data including MAC addresses from all devices on the network.

You need to recommend a monitoring solution.

What should you recommend?

A. Activity Log Analytics

B. Azure Network Security Group Analytics

C. Network Performance Monitor

D. Azure Application Gateway Analytics

E. Azure Wire Data

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 34

Topic #: 6

[All AZ-301 Questions]

A partner manages on-premises and Azure environments. The partner deploys an on-premises solution that needs to use Azure services. The partner deploys a virtual appliance.

All network traffic that is directed to a specific subnet must flow through the virtual appliance.

You need to recommend solutions to manage network traffic.

Which two options should you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Configure Azure Traffic Manager

B. Implement an Azure virtual network

C. Configure a routing table with forced tunneling

D. Implement Azure ExpressRoute

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 35

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are migrating an on-premises application to Azure. One component of the application is a legacy Windows native executable that performs image processing.

The image processing application must run every hour. During times that the image processing application is not running, it should not be consuming any Azure compute resources.

You need to ensure that the image processing application runs correctly every hour.

Solution: Create an Azure Batch application that runs the image processing application every hour.

Does the solution meet the goal?

    A. Yes

    B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 36

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You have an Azure subscription that contains 300 Azure virtual machines that run Windows Server 2016.

You need to centrally monitor all warning events in the System logs of the virtual machines.

What should you include in the solutions? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Resource to create in Azure:

Resource Agent
Dependency Agent
Monitor Agent

Configuration to perform on the virtual machines:

Virtual Machine Scale Set
Dependency Agent
Azure Monitor

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 37

Topic #: 6

[All AZ-301 Questions]

You plan to run an image rendering workload in Azure. The workload uses parallel compute processes.

What is the best service to use to run the workload? More than one answer choice may achieve the goal. Select the BEST answer.

    A. an Azure virtual machine scale set

    B. Azure Kubernetes Service (AKS)

    C. Azure Batch

    D. Azure Container Service

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 38

Topic #: 6

[All AZ-301 Questions]

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployments in your subscription.

What should you include in the recommendation?

    A. the Change Tracking management solution

    B. Azure Activity Log

    C. Azure Monitor action groups

    D. Azure Advisor

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 39

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals.

Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Blob storage in the design.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 40

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Data Lake Storage in the design.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 41

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure Data Table Storage in the design.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 42

Topic #: 6

[All AZ-301 Questions]

Note: This question is part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a storage solution to support on-premises resources and Azure-hosted resources.

You need to provide on-premises storage that has built-in replication to Azure.

Solution: You include Azure StorSimple in the design.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 43

Topic #: 6

[All AZ-301 Questions]

You use Azure virtual machines to run a custom application that uses an Azure SQL Database instance on the back end.

The IT department at your company recently enabled forced tunneling.

Since the configuration change, developers have noticed degraded performance when they access the database.

You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs.

What should you include in the recommendation?

     A. Azure SQL Database Managed Instance

     B. virtual network service endpoints

     C. Always On availability groups

     D. Azure virtual machines that run Microsoft SQL Server servers

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 44

Topic #: 6

[All AZ-301 Questions]

DRAG DROP -

You are designing a network connectivity strategy for a new Azure subscription. You identify the following requirements:

☞ The Azure virtual machines on a subnet named Subnet1 must be accessible only from the computers in your London office.

☞ Engineers require access to the Azure virtual machine on a subnet named Subnet2 over the Internet on a specific TCP/IP management port.

☞ The Azure virtual machines in the West Europe Azure region must be able to communicate on all ports to the Azure virtual machines in the North Europe Azure region.

You need to recommend which components must be used to meet the requirements. The solution must minimize costs and administrative effort whenever possible.

What should you include in the recommendation? To answer, drag the appropriate components to the correct requirements. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 45

Topic #: 6

[All AZ-301 Questions]

You develop a new Azure Web App that uses multiple Azure blobs and static content. The Web App uses a large number of JavaScript files and cascading style sheets.
Some of these files contain references to other files. Users are geographically dispersed.
You need to minimize the time to load individual pages.
What should you do?

    A. Migrate the Web App to Azure Service Fabric

    B. Use an Azure Content Delivery Network (CDN)

    C. Implement an Azure Redis Cache

    D. Create a services layer by using an Azure-hosted ASP.NET web API

    E. Enable the Always On feature of the Web App

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 46

Topic #: 6

[All AZ-301 Questions]

You have 100 Standard_F2s_v2 Azure virtual machines. Each virtual machine has two network adapters.

You need to increase the network performance of the workloads running on the virtual machines. The solution must meet the following requirements:

☞ The CPU-to-memory ratio must remain the same.

☞ The solution must minimize costs.

What should you do?

    A. Configure NIC teaming

    B. Enable RDMA over InfiniBand

    C. Enable SR-IOV

    D. Install an additional network adapter

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 47

Topic #: 6

[All AZ-301 Questions]

You have a .NET web service named Service1 that has the following requirements:

☞ Must read and write temporary files to the local file system.

☞ Must write to the Windows Application event log.

You need to recommend a solution to host Service1 in Azure. The solution must meet the following requirements:

☞ Minimize maintenance overhead.

☞ Minimize costs.

What should you include in the recommendation?

A. an Azure virtual machine scale set

B. an Azure function

C. an App Service Environment

D. an Azure web app

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 48

Topic #: 6

[All AZ-301 Questions]

You have an Azure subscription that contains an Azure Blob storage account named store1.

You have an on-premises file server named Server1 that runs Windows Server 2016. Server1 stores 500 GB of company files.

You need to store a copy of the company files in store1.

Which two possible Azure services achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

    A. an Azure Import/Export job

    B. an integration account

    C. an Azure Batch account

    D. Azure data Factory

    E. an On-premises data gateway

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 49

Topic #: 6

[All AZ-301 Questions]

You have a web app named App1 that is hosted on-premises and on four Azure virtual machines. Each virtual machine is in a different region.

You need to recommend a solution to ensure that users will always connect to the closest instance of App1. The solution must prevent the users from attempting to connect to a failed instance of App1.

Which two possible recommendations achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Front Door Service

B. Azure Load Balancer

C. round-robin DNS

D. Azure Traffic Manager

E. Azure Application Gateway

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 50

Topic #: 6

[All AZ-301 Questions]

HOTSPOT -

You plan to deploy a network-intensive application to several Azure virtual machines.

You need to recommend a solution that meets the following requirements:

☞ Minimizes the use of the virtual machine processors to transfer data

☞ Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Virtual machine size:
▼
| Compute optimized Standard_F8s |
| General purpose Standard_B8ms |
| High performance compute Standard_H16r |
| Memory optimized Standard_E16s_v3 |

Feature:
▼
| Receive side scaling (RSS) |
| Remote Direct Memory Access (RDMA) |
| Single root I/O virtualization (SR-IOV) |
| Virtual Machine Multi-Queue (VMMQ) |

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 51

Topic #: 6

[All AZ-301 Questions]

You are designing a microservices architecture that will support a web application.

The solution must meet the following requirements:

☞ Allow independent upgrades to each microservice

☞ Deploy the solution on-premises and to Azure

☞ Set policies for performing automatic repairs to the microservices

☞ Support low-latency and hyper-scale operations

You need to recommend a technology.

What should you recommend?

A. Azure Service Fabric

B. Azure Container Service

C. Azure Container Instance

D. Azure Virtual Machine Scale Set

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 7

[All AZ-301 Questions]

You need to recommend a solution for the collection of security logs for the middle tier of the payment processing system.

What should you include in the recommendation?

A. the Azure Log Analytics agent

B. Azure Event Hubs

C. Azure Notification Hubs

D. the Azure Diagnostics agent

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 8

[All AZ-301 Questions]

You need to recommend a notification solution for the IT Support distribution group.

What should you include in the recommendation?

A. Azure Network Watcher

B. an action group

C. a SendGrid account with advanced reporting

D. Azure AD Connect Health

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 1

Topic #: 9

[All AZ-301 Questions]

HOTSPOT -

You need to recommend a solution for configuring the Azure Multi-Factor Authentication (MFA) settings.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Azure AD license:

Free
Basic
Premium P1
Premium P2

Access control for the sign-in risk policy:

Allow access and require multi-factor authentication
Block access and require multi-factor authentication
Allow access and require Azure MFA registration
Block access

Access control for the multi-factor authentication registration policy:

Allow access and require multi-factor authentication
Block access and require multi-factor authentication
Allow access and require Azure MFA registration
Block access

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 2

Topic #: 9

[All AZ-301 Questions]

HOTSPOT -

You need to design a solution for securing access to the historical transaction data.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The Azure Cosmos DB account
will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service
will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

Show Suggested Answer

Actual exam question from Microsoft's AZ-301

Question #: 3

Topic #: 9

[All AZ-301 Questions]

HOTSPOT -

You need to recommend a solution for the users at Contoso to authenticate to the cloud-based services and the Azure AD-integrated applications.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Install Azure AD Connect and set the user sign-in option to:

Federation with AD FS
Pass-through Authentication
Password Synchronization

Implement load balancing for the components of the authentication solution by using:

Azure Application Gateway and a Basic Load Balancer
Azure Application Gateway and a Standard Load Balancer
Traffic Manager and a Basic Load Balancer
Traffic Manager and a Standard Load Balancer

Show Suggested Answer