



# Microsoft

## Exam Questions AZ-301

Microsoft Azure Architect Design

#### NEW QUESTION 1

- (Exam Topic 1)

You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input checked="" type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input checked="" type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input checked="" type="radio"/>	<input type="radio"/>

#### NEW QUESTION 2

- (Exam Topic 1)

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

**Answer:** D

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations>

#### NEW QUESTION 3

- (Exam Topic 1)

You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

- A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
- B. Configure the Scale Up settings for a web app.
- C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
- D. Configure the Scale Out settings for a web app.

**Answer:** D

#### NEW QUESTION 4

- (Exam Topic 2)

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard hard disk drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (WTO) can be up to seven days. The solution must minimize costs.  
What should you include in the recommendation?

- A. Store the disks in a Standard\_LRS storage account
- B. Configure Azure site Recover
- C. If a failure occurs, initiate a manual failure over.
- D. Store the disks in a Standard\_GRS storage account
- E. Configure Azure Recover
- F. If a failure occurs, initiate a manual failover.
- G. Store the disks in a Standard\_LRS storage account
- H. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.
- I. Store the disks in a Standard\_GRS storage account
- J. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.

**Answer:** B

#### NEW QUESTION 5

- (Exam Topic 2)

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

**Answer:** B

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

#### NEW QUESTION 6

- (Exam Topic 2)

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

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 7

- (Exam Topic 2)

Note: This question is part of a 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

**Answer:** A

#### NEW QUESTION 8

- (Exam Topic 2)

You use Azure virtual machines to run a custom application that uses an Azure SQL database 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. Azure virtual machines that run Microsoft SQL Server servers
- C. Always On availability groups
- D. virtual network service endpoint

**Answer:** D

#### NEW QUESTION 9

- (Exam Topic 2)

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

**Answer:** C

#### NEW QUESTION 10

- (Exam Topic 2)

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.

### Policies

None

ReadOnly

ReadWrite

### Answer Area

←

Log:

Policy

→

Data:

Policy

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performan>

#### NEW QUESTION 10

- (Exam Topic 2)

You have an Azure environment that contains the Azure subscription and the virtual networks shown in the following table.

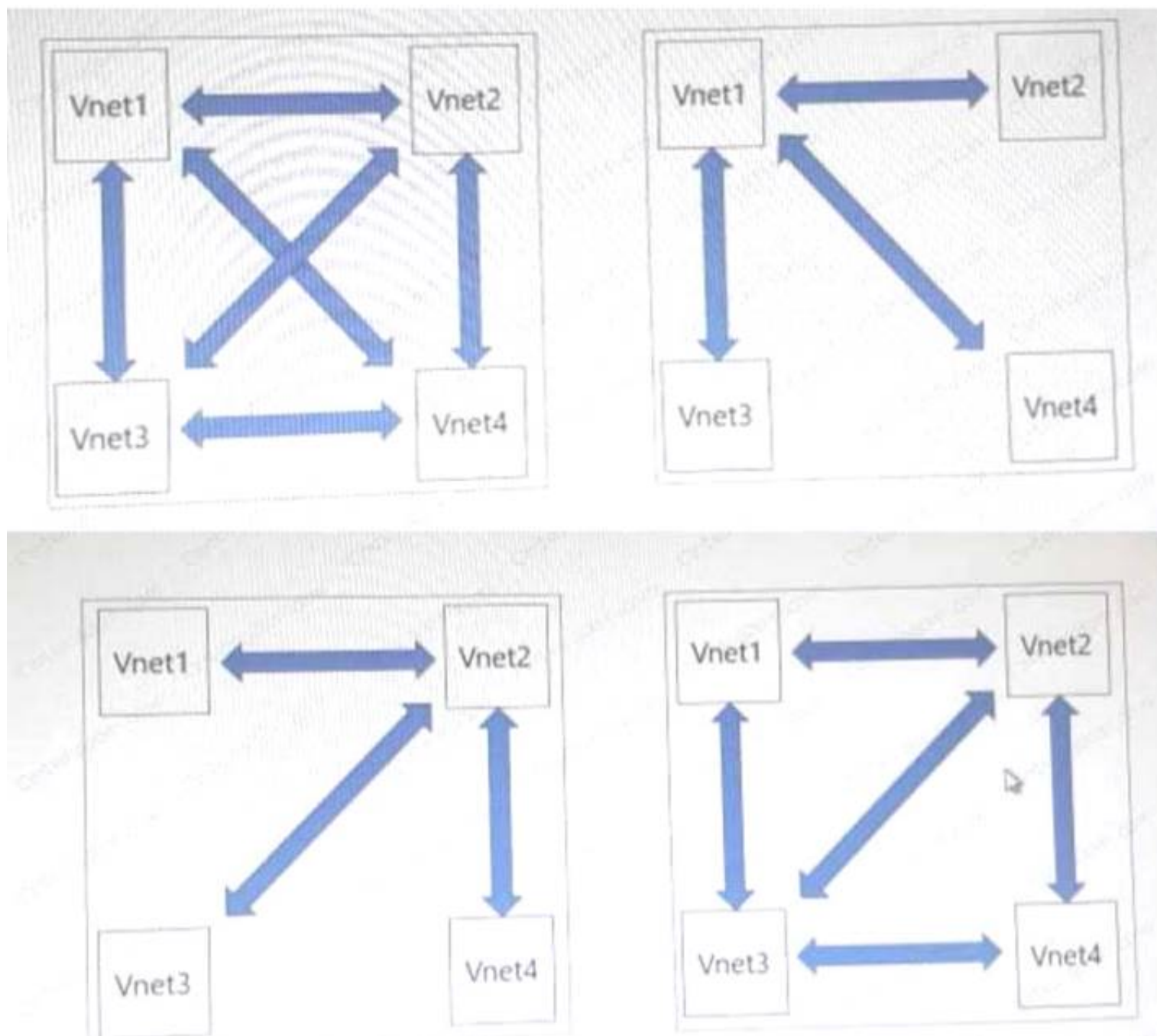
Virtual network name	Subscription name	Virtual network type
Vnet1	Subscription1	Classic mode
Vnet2	Subscription1	Resource Manager
Vnet3	Subscription1	Resource Manager
Vnet4	Subscription2	Resource Manager

You need to recommend a virtual network peering solution to ensure that the resources connected to any other virtual network. The solution must minimize administrative effort.

Which virtual network peering topology should you recommend? To answer, select the appropriate topology in the answer area.

NOTE: Each correct selection is worth one point,

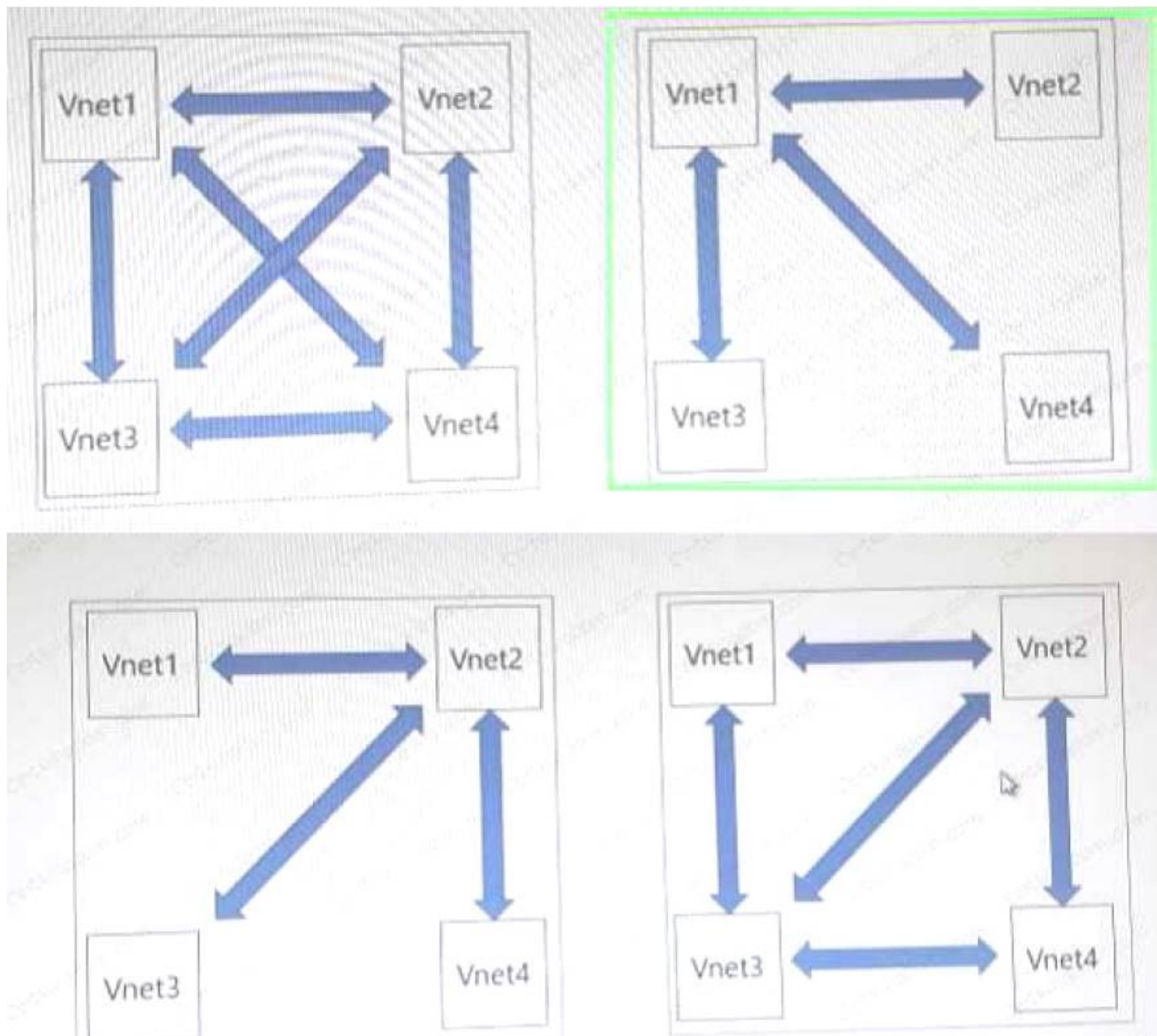




- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



### NEW QUESTION 13

- (Exam Topic 2)

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 to your company's help desk? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. self-service password reset
- B. access review
- C. password writeback
- D. Azure AD Privileged Identity Management policies
- E. Microsoft Cloud App Security Conditional Access App Control

**Answer:** AD

### NEW QUESTION 18

- (Exam Topic 2)

Note: This question is part of a 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

**Answer:** B

#### NEW QUESTION 19

- (Exam Topic 2)

You manage a single-domain, on-premises Active Directory for named contoso.com. The forest functional level is window 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 appkcatkms. The solution mufll 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 additional domain controllers for the contoso.com domain

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

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

D. Implement a new Acuve Directory forest in Azure.

**Answer:** A

#### NEW QUESTION 24

- (Exam Topic 2)

You are designing an Azure solution for a company that wants to move a .NET Core web application 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. Does this meet the goal?

A. Yes

B. No

**Answer:** A

#### NEW QUESTION 27

- (Exam Topic 2)

You have an on-premises network that uses on IP address space of 172.16.0.0/16 You plan to deploy 25 virtual machines to a new azure subscription.

You identity the following technical requirements.

All Azure virtual machines must be placed on the same subnet subnet1.

All the Azure virtual machines must be able to communicate with all on premises severs.

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 subnet. 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.

Network Addresses	Answer Area
172.16.0.0/16	<div>Subnet1: <input type="text" value="Network address"/></div> <div>Gateway subnet: <input type="text" value="Network address"/></div>
172.16.1.0/28	
192.168.0.0/24	
192.168.1.0/28	

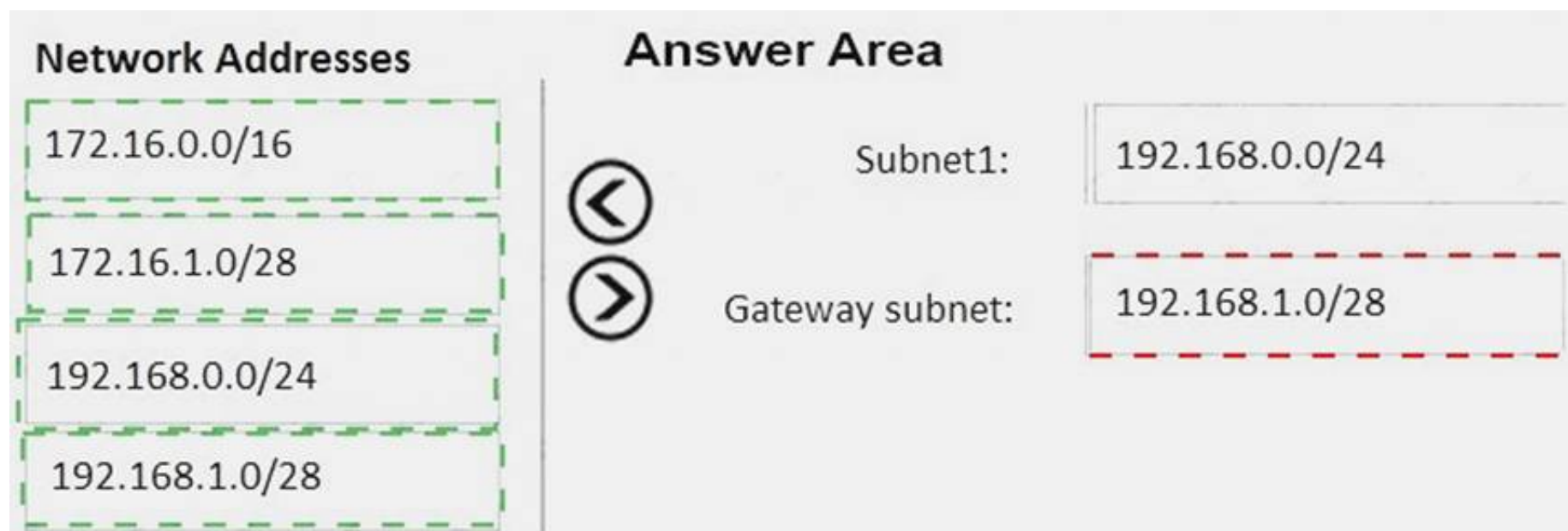
A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**





### NEW QUESTION 30

- (Exam Topic 2)

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 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

**Answer: A**

### NEW QUESTION 35

- (Exam Topic 2)

Note: This question is part of a 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 it an Azure legion 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

**Answer: A**

### NEW QUESTION 40

- (Exam Topic 2)

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 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

**Answer: B**

### NEW QUESTION 41



- (Exam Topic 2)

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

**Answer:** CE

#### NEW QUESTION 43

- (Exam Topic 2)

Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement? The company's compliance team creates automatic alerts by using Ware 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 Pokey
- B. Azure Resource Manager templates
- C. Azure log Analytics alerts
- D. Azure Monitor action groups
- E. Azure Automation runboote

**Answer:** D

#### NEW QUESTION 46

- (Exam Topic 2)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription What should you include in the recommend3tton,

- A. Azure Activity Log
- B. Azure Monitor action groups
- C. Azure Advisor
- D. Azure Monitor metrics

**Answer:** B

#### NEW QUESTION 50

- (Exam Topic 2)

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

**Answer:** B

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/batch/batch-technical-overview>

#### NEW QUESTION 55

- (Exam Topic 2)

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

**Answer:** A

#### NEW QUESTION 59

- (Exam Topic 2)

You plan to deploy 200 Microsoft SQL Server databases to Azure by using 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 on metrics collected near real-time multiple times per minutes 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. Azure Monitor
- B. dynamic management views
- C. SQL Server-Profiler
- D. trace flags

**Answer: D**

#### NEW QUESTION 64

- (Exam Topic 2)

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 (NSG)
- B. Enable rate limiting
- C. Strip the Power-By response header
- D. Enable quotas.

**Answer: A**

#### NEW QUESTION 68

- (Exam Topic 2)

You have an Azure subscription that contains a custom application named Application1. Application1 was developed by an external company named Fabric, Ltd. Developers at Fabricam 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 Fabricam 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 access permission, automatically revoke that permission.

\* Minimize development effort. What should you recommend?

- A. Create an Azure Automation runbook that runs the Get-AzureADUSAppRoleAssignment cmdlet.
- B. In Azure Active Directory (Azure AD) create an access review of Application1.
- C. In Azure Active Directory (AD) privileged identity managed, create a custom roles assignment for the Application1 resources.
- D. Create an Azure Automation runbook that runs the get-AzureRmRolesAssigned cmdlet.

**Answer: A**

#### NEW QUESTION 73

- (Exam Topic 2)

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

**Answer: C**

#### NEW QUESTION 74

- (Exam Topic 2)

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)

**Answer: B**

#### NEW QUESTION 78

- (Exam Topic 2)

You have 100 Standard F2v2 Azure virtual machines. Each virtual machine has two network adapters. You need to increase the network performance of the

workloads running on the virtual machine. 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. Enable SRIOV
- B. Enable ROMA over InfiniBand
- C. Install an additional network adapter.
- D. Configure NIC teaming.

**Answer:** A

#### NEW QUESTION 81

- (Exam Topic 2)

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

**Answer:** A

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-migrate>

#### NEW QUESTION 82

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