

# Exam Questions AZ-301

Microsoft Azure Architect Design

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#### 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 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"/>

#### 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)

What should you include in the identity management strategy to support the planned changes?

A. Move all the domain controllers from corp.fabrikam.com to virtual networks in Azure.

B. Deploy domain controllers for corp.fabrikam.com to virtual networks in Azure.

C. Deploy a new Azure AD tenant for the authentication of new R&D projects.

D. Deploy domain controllers for the rd.fabrikam.com forest to virtual networks in Azure.

Answer: B

Explanation:

Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network. (This requires domain controllers in Azure)

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. (This requires domain controllers on-premises)

#### NEW QUESTION 4

- (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: 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 5

- (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 with 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 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 6

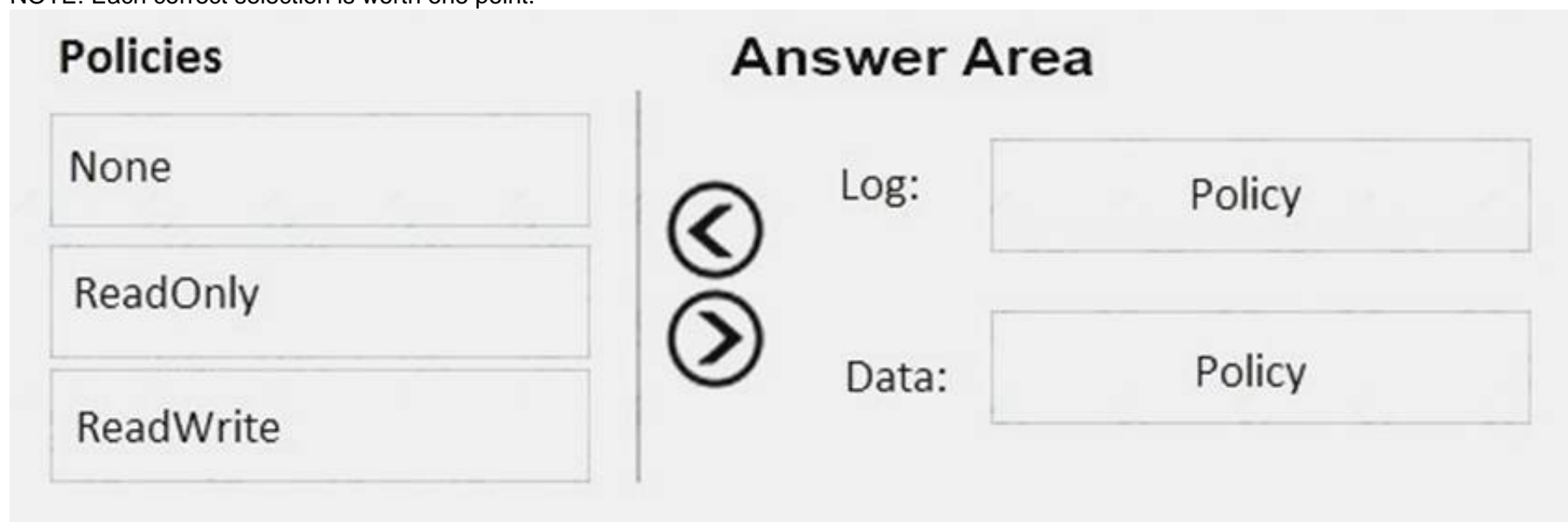
- (Exam Topic 2)

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.



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 7

- (Exam Topic 2)

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)

**Answer:** C

#### NEW QUESTION 8

- (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 Conned

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

NOTE: Each correct selection is worth one point

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

**Answer:** AD

#### NEW QUESTION 9

- (Exam Topic 2)

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.

Certificates	Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop:
A root CA certificate that has the public key	The users' Personal store on each laptop:
A user certificate that has the private key	The Azure VPN gateway:
A user certificate that has the public key	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Certificates	Answer Area
A root CA certificate that has the private key	Trusted Root Certification Authorities certificate store on each laptop:
A root CA certificate that has the public key	The users' Personal store on each laptop:
A user certificate that has the private key	The Azure VPN gateway:
A user certificate that has the public key	

#### NEW QUESTION 10

- (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.

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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 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 10

- (Exam Topic 2)

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

C. Azure Site Recovery

D. Azure Backup

**Answer: C**

#### NEW QUESTION 11

- (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 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 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 Azure Directory forest in Azure.

**Answer: A**

#### NEW QUESTION 12

- (Exam Topic 2)

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)

**Answer: B**

#### NEW QUESTION 14

- (Exam Topic 2)

You are planning to deploy an application by using the Azure Kubernetes Services (AKS)> the application will rely on having access to an encryption key that will be used to ... transmit files

What should you use to provide the encryption key AKS security?

A. secrets

B. Azure Storage Service Encryption

C. a Kubernetes deployment YAML file

D. ConfigMap

**Answer: C**

#### NEW QUESTION 19

- (Exam Topic 2)

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

**Answer:** D

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

#### NEW QUESTION 20

- (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 an Isolated App Service plan on VNET1. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 25

- (Exam Topic 2)

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.

**Answer:** B

#### NEW QUESTION 28

- (Exam Topic 2)

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

**Answer:** B

#### NEW QUESTION 32

- (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.

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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 33

- (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 35

- (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 36

- (Exam Topic 2)

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

**Answer:** B

### NEW QUESTION 37

- (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 recommendation?

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

**Answer:** B

### NEW QUESTION 39

- (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 43

- (Exam Topic 2)

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

**Answer:** D

#### NEW QUESTION 45

- (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 49

- (Exam Topic 2)

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 the\* destinations. What should you include in the recommendation?

- A. Azure Data Catalog
- B. SQL Server Migration Assistant (SSMS)
- C. Data Migration Assistant
- D. Azure Data Factory

**Answer:** A

#### NEW QUESTION 54

- (Exam Topic 2)

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 container instances
- B. Azure container Service
- C. Azure Kubernetes service (AKS)
- D. Azure service fabric

**Answer:** A

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-container-groups>

#### NEW QUESTION 58

- (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 RDMA over InfiniBand
- C. Install an additional network adapter.
- D. Configure NIC teaming.



**Answer:** A

**NEW QUESTION 59**

- (Exam Topic 3)

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system.  
What should you include in the recommendations?

- A. Always Encrypted with deterministic encryption
- B. Transparent Date Encryption (TDE)
- C. Azure Storage Service Encryption
- D. Always Encrypted with randomized encryption

**Answer:** A

**NEW QUESTION 63**

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