



**Microsoft**

## **Exam Questions AZ-304**

Microsoft Azure Architect Design (beta)

#### NEW QUESTION 1

- (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 2

- (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 3

- (Exam Topic 1)

You need to recommend a data storage strategy for WebApp1. What should you include in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU AzureSQL database.

**Answer: B**

#### NEW QUESTION 4

- (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 5

- (Exam Topic 2)

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 6

- (Exam Topic 2)

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.

### 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	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-sign-in-risk-policy> <https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-mfa-policy>

#### NEW QUESTION 7

- (Exam Topic 3)

You have an Azure Active Directory (Azure AD) tenant.

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.

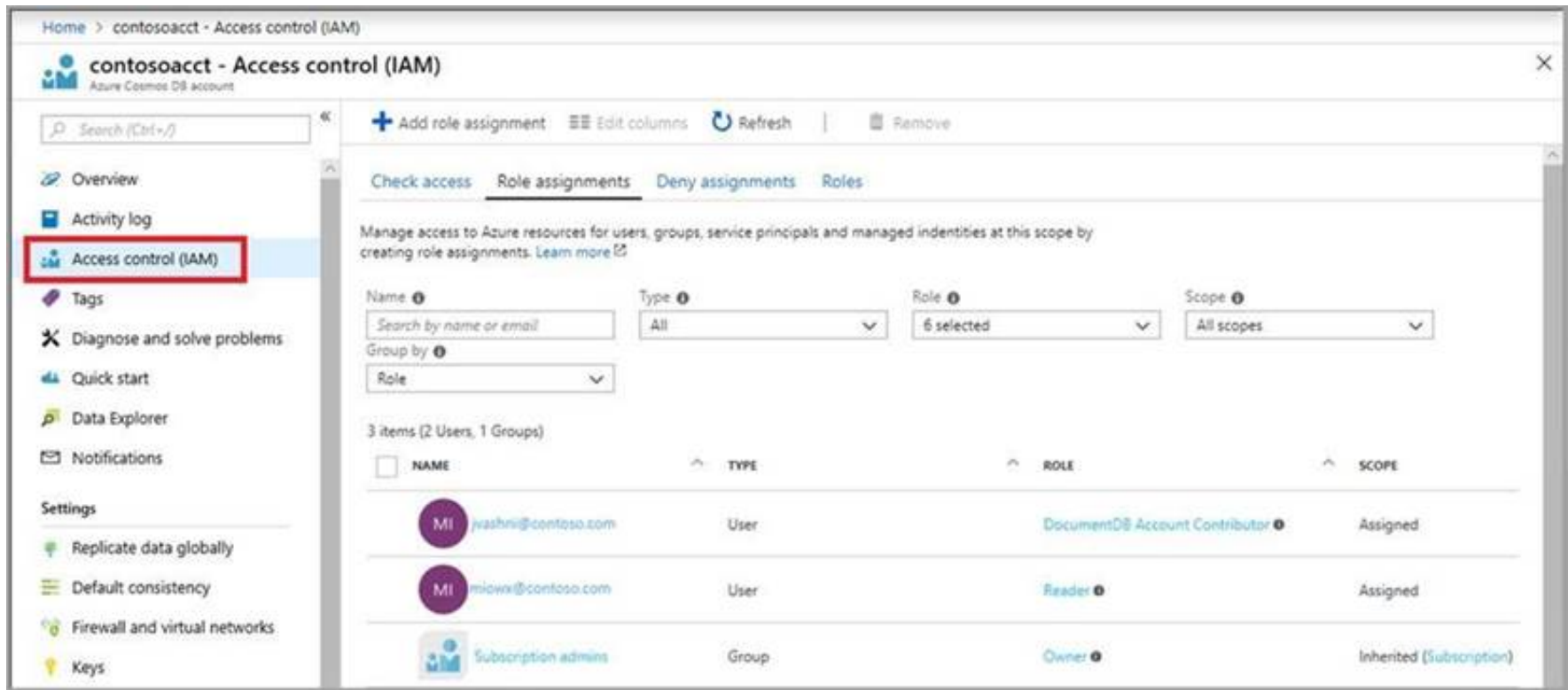
What should you include in the recommendation?

- A. a resource token and an Access control (IAM) role assignment
- B. shared access signatures (SAS) and conditional access policies
- C. master keys and Azure Information Protection policies
- D. certificates and Azure Key Vault

**Answer:** A

#### Explanation:

The Access control (IAM) pane in the Azure portal is used to configure role-based access control on Azure Cosmos resources. The roles are applied to users, groups, service principals, and managed identities in Active Directory. You can use built-in roles or custom roles for individuals and groups. The following screenshot shows Active Directory integration (RBAC) using access control (IAM) in the Azure portal:



Reference:  
<https://docs.microsoft.com/en-us/azure/cosmos-db/role-based-access-control>

### NEW QUESTION 8

- (Exam Topic 3)

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.

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

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

- \* 1. Azure Monitor Log
- \* 2. Azure Application Insights (application map in App insights)



- \* 3. Azure Application Insights
- \* 4. Azure Application insights

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-map?tabs=net> <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

#### NEW QUESTION 9

- (Exam Topic 3)

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

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 authentication method should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Functionality	Authorization method
Azure Key Vault	<div> <input type="checkbox"/> Hash-based message authentication code (HMAC)                     <input type="checkbox"/> Azure Managed Identity                     <input type="checkbox"/> Role-Based Access Controls (RBAC)                     <input type="checkbox"/> HTTPS encryption                 </div>
Azure SQL	<div> <input type="checkbox"/> Hash-based message authentication code (HMAC)                     <input type="checkbox"/> Azure Managed Identity                     <input type="checkbox"/> Role-Based Access Controls (RBAC)                     <input type="checkbox"/> HTTPS encryption                 </div>
Cosmos DB	<div> <input type="checkbox"/> Hash-based message authentication code (HMAC)                     <input type="checkbox"/> Azure Managed Identity                     <input type="checkbox"/> Role-Based Access Controls (RBAC)                     <input type="checkbox"/> HTTPS encryption                 </div>

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Note: Managed identities for Azure resources is the new name for the service formerly known as Managed Service Identity (MSI). Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

#### NEW QUESTION 10

- (Exam Topic 3)

You have an on-premises network to which you deploy a virtual appliance.

You plan to deploy several Azure virtual machines and connect the on-premises network to Azure by using a Site-to-Site connection.

All network traffic that will be directed from the Azure virtual machines 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.

- A. Configure Azure Traffic Manager.
- B. Implement an Azure virtual network.
- C. Implement Azure ExpressRoute.
- D. Configure a routing table.

**Answer: CD**

#### Explanation:

Connectivity can be from an any-to-any (IP VPN) network, a point-to-point Ethernet network, or a virtual cross-connection through a connectivity provider at a co-location facility. ExpressRoute connections do not go over the public Internet. This allows ExpressRoute connections to offer more reliability, faster speeds, lower latencies, and higher security than typical connections over the Internet.

Reference:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-forced-tunneling-rm> <https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

#### NEW QUESTION 10

- (Exam Topic 3)

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).

**Answer:** AC

#### NEW QUESTION 12

- (Exam Topic 3)

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

**Answer:** AE

#### Explanation:

Reference:

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/> <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/hybrid-use-benefit-licensing>

#### NEW QUESTION 17

- (Exam Topic 3)

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

#### Explanation:

You need to deploy two Azure virtual machines to two Azure regions, but also create a Traffic Manager profile.

#### NEW QUESTION 20

- (Exam Topic 3)

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com

You plan to deploy a custom application to each subscription. The application will contain the following:

- A resource group
- An Azure web app
- Custom role assignments
- An Azure Cosmos DB account

You need to use Azure Blueprints to deploy the application to each subscription.

What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Management groups:

1
2
3
4

Blueprint definitions:

1
2
3
4

Blueprint assignments:

1
2
3
4

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: 2

One management group for East, and one for West.

When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.

Box 2: 1

One definition as the you plan to deploy a custom application to each subscription.

With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved.

Box 3: 4

One assignment for each subscription. Reference:

<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

**NEW QUESTION 25**

- (Exam Topic 3)

You are designing a storage solution that will use Azure Blob storage. The data will be stored in a cool access tier or an archive access tier based on the access patterns of the data.

You identify the following types of infrequently accessed data: Telemetry data: Deleted after two years D18912E1457D5D1DDCBD40AB3BF70D5D

- Promotional material: Deleted after 14 days
- Virtual machine audit data: Deleted after 200 days
- A colleague recommends using the archive access tier to store the data. Which statement accurately describes the recommendation?

- A. Storage costs will be based on a minimum of 30 days.
- B. Access to the data is guaranteed within five minutes.
- C. Access to the data is guaranteed within 30 minutes.
- D. Storage costs will be based on a minimum of 180 days.

**Answer:** D

**Explanation:**

The following table shows a comparison of premium performance block blob storage, and the hot, cool, and archive access tiers.

	Premium performance	Hot tier	Cool tier	Archive tier
Availability	99.9%	99.9%	99%	Offline
Availability (RA-GRS reads)	N/A	99.99%	99.9%	Offline
Usage charges	Higher storage costs, lower access, and transaction cost	Higher storage costs, lower access, and transaction costs	Lower storage costs, higher access, and transaction costs	Lowest storage costs, highest access, and transaction costs
Minimum object size	N/A	N/A	N/A	N/A
Minimum storage duration	N/A	N/A	30 days <sup>1</sup>	180 days
Latency (Time to first byte)	Single-digit milliseconds	milliseconds	milliseconds	hours <sup>2</sup>

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

#### NEW QUESTION 29

- (Exam Topic 3)

You have an Azure subscription that is linked to an Azure Active Directory (Azure AD) tenant. The subscription contains 10 resource groups, one for each department at your company. Each department has a specific spending limit for its Azure resources.

You need to ensure that when a department reaches its spending limit, the compute resources of the department shut down automatically.

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

NOTE: Each correct selection is worth one point.

- A. Azure Logic Apps
- B. Azure Monitor alerts
- C. the spending limit of an Azure account
- D. Cost Management budgets
- E. Azure Log Analytics alerts

**Answer:** CD

#### Explanation:

C: The spending limit in Azure prevents spending over your credit amount. All new customers who sign up for an Azure free account or subscription types that include credits over multiple months have the spending limit turned on by default. The spending limit is equal to the amount of credit and it can't be changed.

D: Turn on the spending limit after removing

This feature is available only when the spending limit has been removed indefinitely for subscription types that include credits over multiple months. You can use this feature to turn on your spending limit automatically at the start of the next billing period.

- > Sign in to the Azure portal as the Account Administrator.
- > Search for Cost Management + Billing.
- > Etc.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/spending-limit>

#### NEW QUESTION 30

- (Exam Topic 3)

You are designing a large Azure environment that will contain many subscriptions. You plan to use Azure Policy as part of a governance solution.

To which three scopes can you assign Azure Policy definitions? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. management groups
- B. subscriptions
- C. Azure Active Directory (Azure AD) tenants
- D. resource groups
- E. Azure Active Directory (Azure AD) administrative units



F. compute resources

**Answer:** ABD

**Explanation:**

Azure Policy evaluates resources in Azure by comparing the properties of those resources to business rules. Once your business rules have been formed, the policy definition or initiative is assigned to any scope of resources that Azure supports, such as management groups, subscriptions, resource groups, or individual resources.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

**NEW QUESTION 32**

- (Exam Topic 3)

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 on-premises Hyper-V cluster that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux.

You plan to migrate the virtual machines to an Azure subscription.

You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account and then running AzCopy. Does this meet the goal?

A. Yes

B. NO

**Answer:** B

**Explanation:**

AzCopy only copy files, not the disks. Instead use Azure Site Recovery. References:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview>

**NEW QUESTION 37**

- (Exam Topic 3)

You are planning to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions.

You need to recommend a storage solution for App1. Updated container images must be replicated automatically to all the AKS clusters.

Which storage solution should you recommend?

A. Premium SKU Azure Container Registry

B. Azure Content Delivery Network (CDN)

C. geo redundant storage (GRS) accounts

D. Azure Cache for Redis

**Answer:** A

**Explanation:**

Enable geo-replication for container images.

Best practice: Store your container images in Azure Container Registry and geo-replicate the registry to each AKS region.

To deploy and run your applications in AKS, you need a way to store and pull the container images. Container Registry integrates with AKS, so it can securely store your container images or Helm charts. Container Registry supports multimaster geo-replication to automatically replicate your images to Azure regions around the world.

Geo-replication is a feature of Premium SKU container registries. Note:

When you use Container Registry geo-replication to pull images from the same region, the results are: Faster: You pull images from high-speed, low-latency network connections within the same Azure region.

More reliable: If a region is unavailable, your AKS cluster pulls the images from an available container registry.

Cheaper: There's no network egress charge between datacenters. Reference:

<https://docs.microsoft.com/en-us/azure/aks/operator-best-practices-multi-region>

**NEW QUESTION 40**

- (Exam Topic 3)

You have an Azure Active Directory (Azure AD) tenant.

You plan to provide users with access to shared files by using Azure Storage. The users will be provided with different levels of access to various Azure file shares based on their user account or their group membership.

You need to recommend which additional Azure services must be used to support the planned deployment. What should you include in the recommendation?

A. an Azure AD enterprise application

B. Azure Information Protection

C. an Azure AD Domain Services (Azure AD DS) instance

D. an Azure Front Door instance

**Answer:** C

**Explanation:**

Azure File supports identity-based authentication over Server Message Block (SMB) through two types of Domain Services: on-premises Active Directory Domain Services (AD DS) and Azure Active Directory Domain Services (Azure AD DS).

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-identity-auth-active-directory-domain-service>

**NEW QUESTION 45**

- (Exam Topic 3)

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)

**Answer: D**

**Explanation:**

Azure Content Delivery Network (CDN) is a global CDN solution for delivering high-bandwidth content. It can be hosted in Azure or any other location. With Azure CDN, you can cache static objects loaded from Azure Blob storage, a web application, or any publicly accessible web server, by using the closest point of presence (POP) server. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network and routing optimizations.

References:

<https://docs.microsoft.com/en-in/azure/cdn/>

**NEW QUESTION 48**

- (Exam Topic 3)

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: Certificate
A root CA certificate that has the public key	The users' Personal store on each laptop: Certificate
A user certificate that has the private key	The Azure VPN gateway: Certificate
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
A root CA certificate that has the public key	The users' Personal store on each laptop: A user certificate that has the private key
A user certificate that has the private key	The Azure VPN gateway: A root CA certificate that has the public key
A user certificate that has the public key	

**NEW QUESTION 53**

- (Exam Topic 3)

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 Storage v2 account named Storage1. You plan to archive data to Storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create a file share, and you configure an access policy. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead of a file share, an immutable Blob storage is required.

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten.

Note: Set retention policies and legal holds

\* 1. Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purpose v2 or Blob storage account.

\* 2. Select Access policy in the container settings. Then select Add policy under Immutable blob storage.

\* 3. To enable time-based retention, select Time-based retention from the drop-down menu.

\* 4. Enter the retention interval in days (acceptable values are 1 to 146000 days). References:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage> <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage>

**NEW QUESTION 56**

- (Exam Topic 3)

You are designing a message application that will run on an on-premises Ubuntu virtual machine. The application will use Azure Storage queues.

You need to recommend a processing solution for the application to interact with the storage queues. The solution must meet the following requirements:

- Create and delete queues daily.
- Be scheduled by using a CRON job.
- Upload messages every five minutes.

What should developers use to interact with the queues?

- A. Azure CLI
- B. AzCopy
- C. Azure Data Factory
- D. .NET Core

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/storage/queues/storage-tutorial-queues>

**NEW QUESTION 59**

- (Exam Topic 3)

The developers at your company are building a containerized Python Django app.

You need to recommend platform to host the app. The solution must meet the following requirements:

- Support autoscaling.
- Support continuous deployment from an Azure Container Registry.
- Provide built-in functionality to authenticate app users by using Azure Active Directory (Azure AD). Which platform should you include in the recommendation?

- A. Azure Container instances
- B. an Azure App Service instance that uses containers
- C. Azure Kubernetes Service (AKS)

**Answer:** C

**Explanation:**

To keep up with application demands in Azure Kubernetes Service (AKS), you may need to adjust the number of nodes that run your workloads. The cluster autoscaler component can watch for pods in your cluster that can't be scheduled because of resource constraints. When issues are detected, the number of nodes in a node pool is increased to meet the application demand.

Azure Container Registry is a private registry for hosting container images. It integrates well with orchestrators like Azure Container Service, including Docker Swarm, DC/OS, and the new Azure Kubernetes service.

Moreover, ACR provides capabilities such as Azure Active Directory-based authentication, webhook support, and delete operations.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler>

<https://medium.com/velotio-perspectives/continuous-deployment-with-azure-kubernetes-service-azurecontainer-registry-jenkins-ca337940151b>

**NEW QUESTION 62**

- (Exam Topic 3)

You need to recommend a solution to deploy containers that run an application. The application has two tiers.

Each tier is implemented as a separate Docker Linux-based image. The solution must meet the following requirements:

- The front-end tier must be accessible by using a public IP address on port 80.
- The backend tier must be accessible by using port 8080 from the front-end tier only.
- Both containers must be able to access the same Azure file share.
- If a container fails, the application must restart automatically.
- Costs must be minimized.

What should you recommend using to host the application?

- A. Azure Kubernetes Service (AKS)
- B. Azure Service Fabric
- C. Azure Container instances

**Answer:** C

**Explanation:**

Azure Container Instances enables a layered approach to orchestration, providing all of the scheduling and management capabilities required to run a single container, while allowing orchestrator platforms to manage multi-container tasks on top of it.

Because the underlying infrastructure for container instances is managed by Azure, an orchestrator platform does not need to concern itself with finding an appropriate host machine on which to run a single container.

Azure Container Instances can schedule both Windows and Linux containers with the same API. Orchestration of container instances exclusively

Because they start quickly and bill by the second, an environment based exclusively on Azure Container Instances offers the fastest way to get started and to deal with highly variable workloads.

Reference:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview> <https://docs.microsoft.com/en-us/azure/container-instances/container-instances-orchestrator-relationship>

**NEW QUESTION 67**

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