Microsoft

Exam Questions AZ-304

Microsoft Azure Architect Design (beta)

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NEW QUESTION 1
- (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 2
- (Exam Topic 1)
To meet the authentication requirements of Fabrikam, 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: 2
The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.
Box 2: 1
Box 3: 1
Scenario:
Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.
Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials. All administrative access to the Azure portal must be secured by using multi-factor authentication.
Note:
Users must always authenticate by using their corp.fabrikam.com UPN identity.
The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.
Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.
Rd.fabrikam.com is used by the research and development (R&D) department only.

NEW QUESTION 3
- (Exam Topic 2)
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 4
- (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 5
- (Exam Topic 2)
You need to recommend a backup solution for the data store of the payment processing. What should you include in the recommendation?

A. Microsoft System Center Data Protection Manager (DPM)
B. long-term retention
C. a Recovery Services vault
D. Azure Backup Server

Answer: B

Explanation:

References:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure

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.

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 2)
You need to recommend a solution for data of the historical transaction query system.
What should you include in the recommendation? To answer, Select the appropriate or options in the answer area.
NOTE: Each correct selection is worth one point

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 8
- (Exam Topic 2)
You need to recommend a backup solution for the data store of the payment processing system.
What should you include in the recommendation?

A. Microsoft System Center Data Protection Manager (DPM)
B. Azure Backup Server
C. Azure SQL long-term backup retention
D. Azure Managed Disks

Answer: C

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure

NEW QUESTION 9
- (Exam Topic 3)
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

Answer: C

Explanation:
 References:
https://docs.microsoft.com/en-us/azure/api-management/transform-api

NEW QUESTION 10
- (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.

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 are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. 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 should you include in the recommendation?

A. Azure Service Bus
B. Azure Blob storage
C. Azure Notification Hubs
D. Azure Application Gateway

Answer: A

Explanation:
Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages
inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.
Reference:
https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions

NEW QUESTION 13
- (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 15
- (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 16
- (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 that has a file service and a blob service, and then using the Data Migration Assistant
Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Data Migration Assistant is used to migrate SQL databases. Instead use Azure Site Recovery.
References:
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview

NEW QUESTION 20
- (Exam Topic 3)
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 25
- (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 29
- (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 30
- (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.
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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 32
- (Exam Topic 3)
You are designing an Azure resource deployment that will use Azure Resource Manager templates. The deployment will use Azure Key Vault to store secrets.
You need to recommend a solution to meet the following requirements:
Prevent the IT staff that will perform the deployment from retrieving the secrets directly from Key Vault. Use the principle of least privilege.
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 Key Vault access policy that allows all get key permissions, get secret permissions, and get certificate permissions.
B. From Access policies in Key Vault, enable access to the Azure Resource Manager for template deployment.
C. Create a Key Vault access policy that allows all list key permissions, list secret permissions, and list certificate permissions.
D. Assign the IT staff a custom role that includes the Microsoft.KeyVault/Vaults/Deploy/Action permission.
E. Assign the Key Vault Contributor role to the IT staff.

Answer: BD

Explanation:
B: To access a key vault during template deployment, set enabledForTemplateDeployment on the key vault to true.
D: The user who deploys the template must have the Microsoft.KeyVault/vaults/deploy/action permission for the scope of the resource group and key vault.
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/key-vault-parameter https://docs.microsoft.com/en-us/azure/key-vault/general/overview-security

NEW QUESTION 34
- (Exam Topic 3)
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 36
- (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 38
- (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 a web app in an Isolated App Service plan.
Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Instead, you should deploy an Azure virtual machine to two Azure regions, and you create a Traffic Manager profile.

NEW QUESTION 41
- (Exam Topic 3)
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series

NEW QUESTION 42
- (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.
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You plan to morale the virtual machine? to an Azure subscription
You need to recommend 9 solution 10 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 a Recovery Services vault and then using Azure Site Recovery. Dees this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
Site Recovery can replicate on-premises VMware VMs, Hyper-V VMs, physical servers (Windows and Linux), Azure Stack VMs to Azure.
Note: Site Recovery helps ensure business continuity by keeping business apps and workloads running during outages. Site Recovery replicates workloads running on physical and virtual machines (VMs) from a primary site to a secondary location. When an outage occurs at your primary site, you fail over to secondary location, and access apps from there. After the primary location is running again, you can fail back to it.
References:
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview

NEW QUESTION 45
- (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 an Azure Blob storage container, and you configure a legal hold access policy. Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Use an Azure Blob storage container, but use a time-based retention policy instead of a legal hold. Note:
Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state. This state makes the data non-erasable and non-modifiable for a
user-specified interval. For the duration of the retention interval, blobs can be created and read, but cannot be modified or deleted. Immutable storage is available for general-purpose v2 and Blob storage accounts in all Azure regions.
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. Either
* 3a. To enable legal holds, select Add Policy. Select Legal hold from the drop-down menu. Or
* 3b. 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). Reference:
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 46
- (Exam Topic 3)
You have an Azure subscription that contains 100 virtual machines.
You plan to design a data protection strategy to encrypt the virtual disks.
You need to recommend a solution to encrypt the disks by using Azure Disk Encryption. The solution must provide the ability to encrypt operating system disks and data disks.
What should you include in the recommendation?

A. a passphrase
B. a certificate
C. a key
D. a secret

Answer: C

Explanation:
For enhanced virtual machine (VM) security and compliance, virtual disks in Azure can be encrypted. Disks are encrypted by using cryptographic keys that are

secured in an Azure Key Vault. You control these cryptographic keys and can audit their use.
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/encrypt-disks

NEW QUESTION 50
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