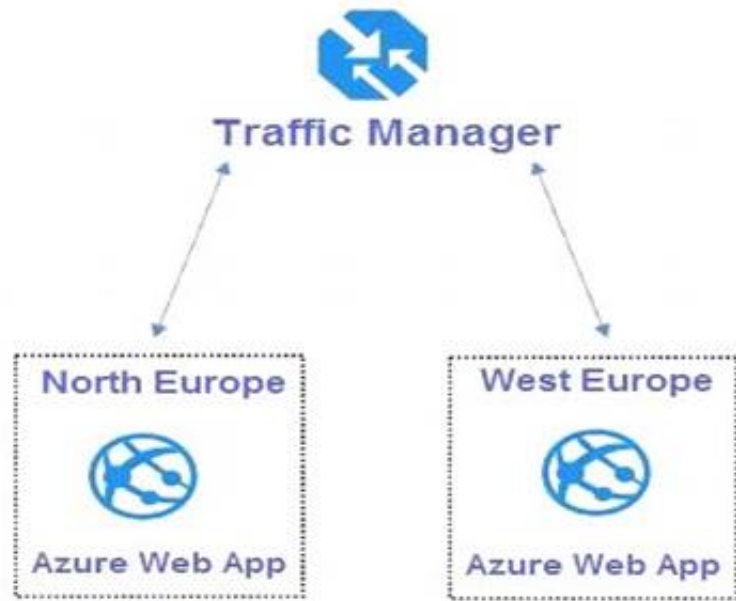# Microsoft

Exam Questions AZ-304

Microsoft Azure Architect Design (beta)

NEW QUESTION 1
- (Exam Topic 1)
You design a solution for the web tier of WebApp1 as shown in the exhibit.

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Any new deployments to Azure must be redundant in case an Azure region fails.
Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a
traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a
range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to
failure, including the failure of an entire Azure region.
Box 2: Yes
Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens
on App Service plan level and has effect on all Web Apps running in that App Service plan).
Box 3: No
Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models.
Traffic Manager is resilient to failure, including the failure of an entire Azure region.
Reference:
https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/

NEW QUESTION 2
- (Exam Topic 1)
You need to recommend a solution to meet the database retention requirement. What should you recommend?

A. Configure a long-term retention policy for the database.
B. Configure Azure Site Recovery.
C. Configure geo replication of the database.
D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 3
- (Exam Topic 1)
You need to recommend a data storage strategy for WebApp1. What should you include in in the recommendation?

A. an Azure SQL Database elastic pool
B. a vCore-baswl 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.	◯	◯
You must provision an Azure Storage account for the Web site content storage.	◯	◯
You must provision an Azure Storage account for the Database metric monitoring.	◯	◯

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	◯	◯
You must provision an Azure Storage account for the Web site content storage.	◯	◯
You must provision an Azure Storage account for the Database metric monitoring.	◯	◯

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 3)
You need to design a resource governance solution for an Azure subscription. The solution must meet the following requirements:
≫ Ensure that all ExpressRoute resources are created in a resource group named RG1.
≫ Delegate the creation of the ExpressRoute resources to an Azure Active Directory (Azure AD) group named Networking.
≫ Use the principle of least privilege.
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.

Ensure that all ExpressRoute resources are created in RG1:

A custom RBAC role assignment at the level of RG1
A custom RBAC role assignment at the subscription level
An Azure Blueprints assignment that sets locking mode for the level of RG1
An Azure Policy assignment at the subscription level that has an exclusion
Multiple Azure Policy assignments at the resource group level except for RG1

Delegate the creation of the ExpressRoute resources to Networking:

A custom RBAC role assignment at the level of RG1
A custom RBAC role assignment at the subscription level
An Azure Blueprints assignment that sets locking mode for the level of RG1
An Azure Policy assignment at the subscription level that has an exclusion
Multiple Azure Policy assignments at the resource group level except for RG1

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: An Azure policy assignment at the subscription level that has an exclusion Box 2: A custom RBAC role assignment at the level of RG1
Azure role-based access control (Azure RBAC) is the authorization system you use to manage access to Azure resources. To grant access, you assign roles to users, groups, service principals, or managed identities at a particular scope.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage

NEW QUESTION 7
- (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 8
- (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 9
- (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 10
- (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 10
- (Exam Topic 3)
A company has a hybrid ASP.NET Web API application that is based on a software as a service (SaaS) offering.
Users report general issues with the data. You advise the company to implement live monitoring and use ad hoc queries on stored JSON data. You also advise the company to set up smart alerting to detect anomalies in the data.
You need to recommend a solution to set up smart alerting. What should you recommend?

A. Azure Application Insights and Azure Monitor Logs
B. Azure Site Recovery and Azure Monitor Logs
C. Azure Data Lake Analytics and Azure Monitor Logs
D. Azure Security Center and Azure Data Lake Store

Answer: C

Explanation:
Application Insights, a feature of Azure Monitor, is an extensible Application Performance Management (APM) service for developers and DevOps professionals.
Use it to monitor your live applications. It will automatically detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app.
Reference:
https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview

NEW QUESTION 15
- (Exam Topic 3)
You have an existing implementation of Microsoft SQL Server Integration Services (SSIS) packages stored in an SSISDB catalog on your on-premises network.
The on-premises network does not have hybrid connectivity to Azure by using Site-to-Site VPN or ExpressRoute.
You want to migrate the packages to Azure Data Factory.
You need to recommend a solution that facilitates the migration while minimizing changes to the existing packages. The solution must minimize costs.
What should you recommend? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Store the SSISDB catalog by using:
Azure SQL Database
Azure Synapse Analytics
SQL Server on an Azure virtual machine
SQL Server on an on-premises computer

Implement a runtime engine for package execution by using:
Self-hosted integration runtime only
Azure-SQL Server Integration Services Integration Runtime (IR) only
Azure-SQL Server Integration Services Integration Runtime and self-hosted integration runtime

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Azure SQL database
You can't create the SSISDB Catalog database on Azure SQL Database at this time independently of creating the Azure-SSIS Integration Runtime in Azure Data Factory. The Azure-SSIS IR is the runtime environment that runs SSIS packages on Azure.
Box 2: Azure-SQL Server Integration Service Integration Runtime and self-hosted integration runtime The Integration Runtime (IR) is the compute infrastructure used by Azure Data Factory to provide data

integration capabilities across different network environments. Azure-SSIS Integration Runtime (IR) in Azure Data Factory (ADF) supports running SSIS packages. Self-hosted integration runtime can be used for data movement in this scenario. Reference: https://docs.microsoft.com/en-us/azure/data-factory/create-azure-integration-runtime https://docs.microsoft.com/en-us/sql/integration-services/lift-shift/ssis-azure-connect-to-catalog-database

NEW QUESTION 20
- (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 snapshots. Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Instead you could create an Azure Blob storage container, and you configure a legal hold access policy. References:
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage

NEW QUESTION 25
- (Exam Topic 3)
You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:
The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.
Costs must be minimized.
What should you include in the solution?

A. Azure Logic Apps in the integrated service environment
B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
C. Azure Logic Apps in the Consumption plan
D. Azure Functions in the Consumption plan

Answer: D

Explanation:
When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.
For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance. Connect to private endpoints with Azure Functions
As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p

NEW QUESTION 28
- (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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Certificates

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

Answer Area

Trusted Root Certification Authorities certificate store on each laptop:

| 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 root CA certificate that has the public key |

NEW QUESTION 32
- (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 33
- (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 36
- (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 40
- (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 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 42
- (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 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 48
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