

AZ-304 Dumps

Microsoft Azure Architect Design (beta)

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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.

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input type="radio"/>	<input type="radio"/>

- 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 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 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.

Answer Area

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

NEW QUESTION 4

- (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 5

- (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 6

- (Exam Topic 3)

You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription. You identify 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 servers.
- > The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Network Addresses

172.16.0.0/16
172.16.1.0/28
192.168.0.0/24
192.168.1.0/28

Answer Area

⏪	Subnet1:	Network address
⏩	Gateway subnet:	Network address

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Network Addresses

172.16.0.0/16
172.16.1.0/28
192.168.0.0/24
192.168.1.0/28

Answer Area

⏪	Subnet1:	192.168.0.0/24
⏩	Gateway subnet:	192.168.1.0/28

NEW QUESTION 7

- (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 8

- (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 9

- (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 10

- (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 10

- (Exam Topic 3)

Your company purchases an app named App1.
You plan to run App1 on seven Azure virtual machines in an Availability Set. The number of fault domains is set to 3. The number of update domains is set to 20.
You need to identify how many App1 instances will remain available during a period of planned maintenance. How many App1 instances should you identify?

- A. 1
- B. 2
- C. 6
- D. 7

Answer: C

Explanation:

Only one update domain is rebooted at a time. Here there are 7 update domain with one VM each (and 13 update domain with no VM).
Reference:
<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability>

NEW QUESTION 12

- (Exam Topic 3)

You are designing an order processing system in Azure that will contain the Azure resources shown in the following table.

Name	Type	Purpose
App1	Web app	Processes customer orders
Function1	Function	Check product availability at vendor 1
Function2	Function	Check product availability at vendor 2
storage1	Storage account	Stores order processing logs

The order processing system will have the following transaction flow:

- A customer will place an order by using App1.
- When the order is received, App1 will generate a message to check for product availability at vendor 1 and vendor 2.
- An integration component will process the message, and then trigger either Function1 or Function2 depending on the type of order.
- Once a vendor confirms the product availability, a status message for App1 will be generated by Function1 or Function2.
- All the steps of the transaction will be logged to storage1.

Which type of resource should you recommend for the integration component? D18912E1457D5D1DDCBD40AB3BF70D5D
Which type of resource should you recommend for the integration component?

- A. an Azure Data Factory pipeline
- B. an Azure Service Bus queue
- C. an Azure Event Grid domain
- D. an Azure Event Hubs capture

Answer: A

Explanation:

A data factory can have one or more pipelines. A pipeline is a logical grouping of activities that together perform a task.
The activities in a pipeline define actions to perform on your data.
Data Factory has three groupings of activities: data movement activities, data transformation activities, and control activities.
Azure Functions is now integrated with Azure Data Factory, allowing you to run an Azure function as a step in your data factory pipelines.
Reference:
<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities>

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 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 17

- (Exam Topic 3)

Your company is designing a multi-tenant application that will use elastic pools and Azure SQL databases. The application will be used by 30 customers. You need to design a storage solution for the application. The solution must meet the following requirements:

- > Operational costs must be minimized.
- > All customers must have their own database.
- > The customer databases will be in one of the following three Azure regions: East US, North Europe, or South Africa North.

What is the minimum number of elastic pools and Azure SQL Database servers required? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Elastic pools:

1
3
6
10
30

Azure SQL Database servers:

1
3
6
10
30

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 3

The server, its pools & databases must be in the same Azure region under the same subscription. Box 2: 3

A server can have up to 5000 databases associated to it.

Reference:

<https://vincentlauzon.com/2016/12/18/azure-sql-elastic-pool-overview/>

NEW QUESTION 21

- (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 24

- (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 28

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