AZ-304 Dumps

Microsoft Azure Architect Design (beta)

https://www.certleader.com/AZ-304-dumps.html

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.	○	○
The design supports autoscaling.	○	○
The design requires a manual configuration if an Azure region fails.	○	○

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 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.

Answer Area

Minimum number of Azure AD tenants: [▼]

0
1
2
3
4

Minimum number of custom domains to add: [▼]

0
1
2
3
4

Minimum number of conditional access policies to create: [▼]

0
1
2
3
4

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 4
- (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 5
- (Exam Topic 2)
You need to recommend a solution for protecting the content of the payment processing system. What should you include in the recommendation?

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

Answer: D

NEW QUESTION 6
- (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 7
- (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 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
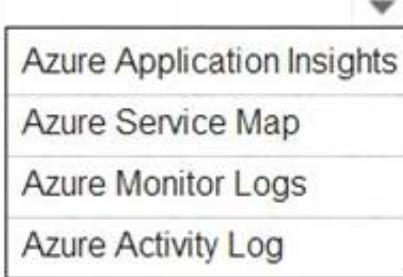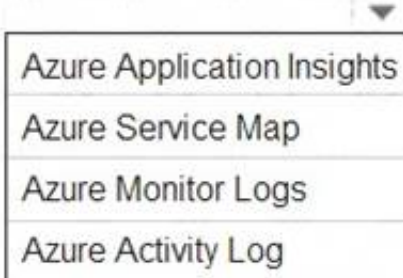
NEW QUESTION 9
- (Exam Topic 3)
You have an Azure App Service Web App that includes Azure Blob storage and an Azure SQL Database instance. The application is instrumented by using the Application Insights SDK.
You need to design a monitoring solution for the web app.
Which Azure monitoring services should 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.	Azure Application Insights / Azure Service Map / Azure Monitor Logs / Azure Activity Log
Visualize the relationships between application components.	Azure Application Insights / Azure Service Map / Azure Monitor Logs / Azure Activity Log
Track requests and exceptions to a specific line of code within the application.	Azure Application Insights / Azure Service Map / Azure Monitor Logs / Azure Activity Log
Analyze how many users return to the application and how often they select a particular dropdown value.	Azure Application Insights / Azure Service Map / Azure Monitor Logs / Azure Activity Log

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 10
- (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 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 11
- (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 14
- (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 18
- (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 21
- (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.
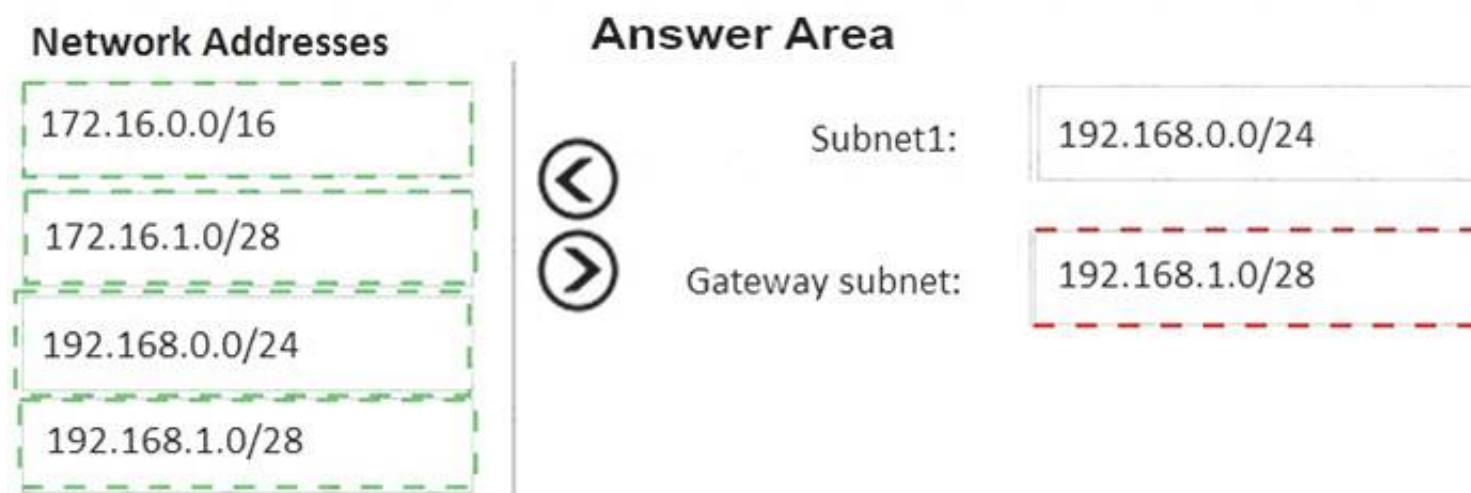NOTE: Each correct selection is worth one point.

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 26
- (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 27
- (Exam Topic 3)
Your company purchases an app named App1.
You plan to tun 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 identity how many App1 instances will remain available during a period of planned maintenance. How many Appl 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 31
- (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 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)
A company named Contoso, Ltd- has an Azure Active Directory {Azure AD) tenant that uses the Basic license.
You plan to deploy two applications to Azure. The applications have the requirements shown in the following table.

Application name	Requirement
Customer	Users must authenticate by using a personal Microsoft account and multi-factor authenication
Reporting	Users must authenticate by using either Contoso credentials or a personal Microsoft account. You must be able to manage the accounts from Azure AD.

Which authentication strategy should you recommend for each application? To answer, drag the appropriate authentication strategies to the correct applications.
Each authentication strategy 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.

Authentication Strategies

| An Azure AD B2C tenant | An Azure AD v1.0 endpoint | An Azure AD v2.0 endpoint |

Answer Area

| Customer: | Authentication strategy |
| Reporting: | Authentication strategy |

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Azure AD V2.0 endpoint
Microsoft identity platform is an evolution of the Azure Active Directory (Azure AD) developer platform. It allows developers to build applications that sign in all Microsoft identities and get tokens to call Microsoft APIs, such as Microsoft Graph, or APIs that developers have built. The Microsoft identity platform consists of:
OAuth 2.0 and OpenID Connect standard-compliant authentication service that enables developers to authenticate any Microsoft identity, including:
Work or school accounts (provisioned through Azure AD)
Personal Microsoft accounts (such as Skype, Xbox, and Outlook.com) Social or local accounts (via Azure AD B2C)
Box 2: Azure AD B2C tenant
Azure Active Directory B2C provides business-to-customer identity as a service. Your customers use their preferred social, enterprise, or local account identities to get single sign-on access to your applications and APIs.
Azure Active Directory B2C (Azure AD B2C) integrates directly with Azure Multi-Factor Authentication so that you can add a second layer of security to sign-up and sign-in experiences in your applications.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-reference-mfa https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-overview

NEW QUESTION 42
- (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 47
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