Exam Questions AZ-304

Microsoft Azure Architect Design (beta)

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NEW QUESTION 1
- (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 2
- (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 3
- (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 4
- (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 5
- (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 6
- (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 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 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 9
- (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 10
- (Exam Topic 3)
You configure the Diagnostics settings for an Azure SQL database as shown in the following exhibit.

Diagnostics settings ✕

🖫 Save   ✕ Discard   🗑 Delete

Name
Diagnostics

☐ Archive to a storage account

☐ Stream to an event hub

☑ Send to Log Analytics

Subscription
| Azure Pass - Sponsorship   ⌄ |

Log Analytics Workspace
| sk191124 (westeurope)   ⌄ |

log

☑ SQLInsights

☑ AutomaticTuning

☑ QueryStoreRuntimeStatistics

☑ QueryStoreWaitStatistics

☑ Errors

☑ DatabaseWaitStatistics

☑ Timeouts

☑ Blocks

☑ Deadlocks

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

To perform real-time reporting by using Microsoft Power BI, you must first [answer choice].

▼
clear Send to Log Analytics
clear SQLInsights
select Archive to a storage account
select Stream to an event hub

Diagnostics data can be reviewed in [answer choice].

▼
Azure Analysis Services
Azure Application Insights
Azure SQL Analytics
Microsoft SQL Server Analysis Services (SSAS)
SQL Health Check

A. Mastered
B. Not Mastered

Answer: A

Explanation:

To perform real-time reporting by using Microsoft Power BI, you must first [answer choice].

clear Send to Log Analytics
clear SQLInsights
select Archive to a storage account
select Stream to an event hub

Diagnostics data can be reviewed in [answer choice].

Azure Analysis Services
Azure Application Insights
Azure SQL Analytics
Microsoft SQL Server Analysis Services (SSAS)
SQL Health Check

NEW QUESTION 10
- (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.

Virtual machine size:

Compute optimized Standard_F8s
General purpose Standard_B8ms
High performance compute Standard_H16r
Memory optimized Standard_E16s_v3

Feature:

Receive side scaling (RSS)
Remote Direct Memory Access (RDMA)
Single root I/O virtualization (SR-IOV)
Virtual Machine Multi-Queue (VMMQ)

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 12
- (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 14
- (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 17
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