**Vendor:**Microsoft

**Exam Code:**AZ-304

**Exam Name:**Microsoft Azure Architect Design Exam

**Version:**Demo

**QUESTION 1**

You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

A. Use Azure Site Recovery to replicate the SQL servers to Azure.

B. Copy the BACPAC file that contains the Azure SQL database files to Azure Blob storage.

C. Use SQL Server transactional replication.

D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage.

Correct Answer: D

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

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**QUESTION 2**

Note: This question is a part of 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.

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs.

Solution: Use the Azure traffic analytics solution in Azure Log Analytics to analyze the network traffic.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Reference: https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

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**QUESTION 3**

HOTSPOT

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.

The API must meet the following requirements:

1.

Implement Azure Functions

2.

Provide public read-only operations

3.

Do not allow write operations

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

| Topic | Value |
| --- | --- |
| Allowed authentication methods | All methods <br> GET only <br> GET and POST only <br> GET, POST, and OPTIONS only |
| Authorization level | Function <br> Anonymous <br> Admin |

Correct Answer:

Allowed authentication methods: GET only Authorization level: Anonymous

The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along authentication information in the HTTP headers. This option provides more flexibility in handling anonymous requests.

References: https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization

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**QUESTION 4**

DRAG DROP

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data. Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine while preserving integrity of the SQL data and logs.

Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy 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.

Select and Place:

**Policies**

| None |
| --- |
| ReadOnly |
| ReadWrite |

**Answer Area**

Log: [Policy]

Data: [Policy]

Correct Answer:

**Policies**

| |
| --- |
| |
| ReadWrite |

**Answer Area**

Log: None

Data: ReadOnly

References: https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performance

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**QUESTION 5**

You are designing a microservices architecture that will use Azure Kubernetes Service (AKS) to host pods that run containers. Each pod deployment will host a separate API. Each API will be implemented as a separate service.

You need to recommend a solution to make the APIs available to external users from Azure API Management. The solution must meet the following requirements:

1.

Control access to the APIs by using mutual TLS authentication between API Management and the AKS-based APIs.

2.

Provide access to the APIs by using a single IP address.

What should you recommend to provide access to the APIs?

A. custom network security groups (NSGs)

B. the LoadBelancer service in AKS

C. the Ingress Controller in AKS

Correct Answer: C

An ingress controller is a piece of software that provides reverse proxy, configurable traffic routing, and TLS termination for Kubernetes services. Kubernetes ingress resources are used to configure the ingress rules and routes for individual Kubernetes services. Using an ingress controller and ingress rules, a single IP address can be used to route traffic to multiple services in a Kubernetes cluster.

Reference: https://docs.microsoft.com/en-us/azure/aks/ingress-basic

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**QUESTION 6**

You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network. You need to design a solution to expose the microservices to the consumer apps. The solution must meet the following requirements:

1.

Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.

2.

The number of incoming microservice calls must be rate-limited.

3.

Costs must be minimized. What should you include in the solution?

A. Azure API Management Premium tier with virtual network connection

B. Azure Front Door with Azure Web Application Firewall (WAF)

C. Azure API Management Standard tier with a service endpoint

D. Azure App Gateway with Azure Web Application Firewall (WAF)

Correct Answer: A

One option is to deploy APIM (API Management) inside the cluster VNet.

The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can

deploy API Management into the cluster VNet. API Management Premium tier supports VNet deployment.

Reference:

https://docs.microsoft.com/en-us/azure/api-management/api-management-kubernetes

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**QUESTION 7**

You have an Azure Active Directory (Azure AD) tenant.

You plan to provide users with access to shared files by using Azure Storage. The users will be provided with different levels of access to various Azure file shares based on their user account or their group membership.

You need to recommend which additional Azure services must be used to support the planned deployment.

What should you include in the recommendation?

A. an Azure AD enterprise application

B. Azure Information Protection

C. an Azure AD Domain Services (Azure AD DS) instance

D. an Azure Front Door instance

Correct Answer: C

Azure Filessupports identity-based authentication over Server Message Block (SMB) throughtwo types of Domain Services: on-premises Active Directory Domain Services (AD DS) and Azure Active Directory Domain Services (Azure AD DS).

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-files-identity-auth-active-directory- domain-service-enable

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**QUESTION 8**

You manage a solution in Azure.

You must collect usage data including MAC addresses from all devices on the network.

You need to recommend a monitoring solution.

What should you recommend?

A. Activity Log Analytics

B. Azure Network Security Group Analytics

C. Network Performance Monitor

D. Azure Application Gateway Analytics

E. Azure Wire Data

Correct Answer: B

A network security group (NSG) includes rules that allow or deny traffic to a virtual network subnet, network interface, or both. When you enable diagnostic logging for an NSG, you can log the following categories of information:

Event: Entries are logged for which NSG rules are applied to VMs, based on MAC address. The status for these rules is

collected every 60 seconds. Rule counter: Contains entries for how many times each NSG rule is applied to deny or allow traffic.

Reference: https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-nsg-manage-log

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**QUESTION 9**

DRAG DROP

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:

1.

All Azure virtual machines must be placed on the same subnet named Subnet1.

2.

All the Azure virtual machines must be able to communicate with all on-premises servers.

3.

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 subnets. 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.

Select and Place:

## 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 |

Correct Answer:

## Network Addresses

| |
|---|
| 172.16.0.0/16 |
| 172.16.1.0/28 |
| |
| |

## Answer Area

| | |
|---|---|
| Subnet1: | 192.168.0.0/24 |
| Gateway subnet: | 192.168.1.0/28 |

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**QUESTION 10**

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

Correct Answer: C

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

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**QUESTION 11**

HOTSPOT

Your company has an API that returns XML data to internal applications.

You plan to migrate the applications to Azure. You also plan to allow the company\\'s partners to access the API.

You need to recommend an API management solution that meets the following requirements:

1.

Internal applications must receive data in the JSON format once the applications migrate to Azure.

2.

Partner applications must have their header information stripped before the applications receive the data.

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.

Hot Area:

Minimum number of APIs to add to Azure API Management:

| |
|---|
| 1 |
| 2 |
| 3 |

Minimum number of products to publish in Azure API Management:

| |
|---|
| 1 |
| 2 |
| 3 |

Minimum number of policy elements to add:

| |
|---|
| 1 |
| 2 |
| 3 |

Correct Answer:

Minimum number of APIs to add to Azure API Management:

| |
|---|
| **1** |
| 2 |
| 3 |

Minimum number of products to publish in Azure API Management:

| |
|---|
| **1** |
| 2 |
| 3 |

Minimum number of policy elements to add:

| |
|---|
| 1 |
| **2** |
| 3 |

https://docs.microsoft.com/en-us/exchange/plan-and-deploy/deploy-new-installations/delegate-installations?view=exchserver-2019

**QUESTION 12**

You have an Azure subscription that contains an Azure SQL database named DB1. Several queries that query the data in DB1 take a long time to execute. You need to recommend a solution to identify the queries that take the longest to

execute.

What should you include in the recommendation?

A. SQL Database Advisor

B. Azure Monitor

C. Performance Recommendations

D. Query Performance Insight

Correct Answer: D

Query Performance Insight provides intelligent query analysis for single and pooled databases. It helps identify the top resource consuming and long-running queries in your workload. This helps you find the queries to optimize to improve overall workload performance and efficiently use the resource that you are paying for.

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/query-performance-insight-use

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