Vendor: Microsoft

Exam Code:AZ-301

Exam Name: Microsoft Azure Architect Design

Version: Demo

QUESTION 1

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 2

You are designing a solution that will host 20 different web applications.

You need to recommend a solution to secure the web applications with a firewall that protects against common web-based attacks including SQL injection, cross-site scripting attacks, and session hijacks. The solution must minimize costs.

Which three Azure features should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. VPN Gateway

B. URL-based content routing

C. Multi-site routing

D. Web Application Firewall (WAF)

E. Azure ExpressRoute

F. Azure Application Gateway

Correct Answer: DEF

The web application firewall (WAF) in Azure Application Gateway helps protect web applications from common web-based attacks like SQL injection, cross-site scripting attacks, and session hijacks. It comes preconfigured with protection

from threats identified by the Open Web Application Security Project (OWASP) as the top 10 common vulnerabilities.

ExpressRoute connections do not go over the public Internet and thus can be considered more secure than VPN-based solutions. This allows ExpressRoute connections to offer more reliability, faster speeds, lower latencies, and higher

security than typical connections over the Internet.

Reference:

https://azure.microsoft.com/en-us/updates/application-gateway-web-application-firewall-in-public-preview/

https://docs.microsoft.com/en-us/azure/security/fundamentals/overview

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QUESTION 3

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks. You need to recommend a solution that meets the following requirements:

1.

 The use of encryption keys is audited.

2.

 All the data is encrypted at rest always.

3.

 You manage the encryption keys, not Microsoft. What should you include in the recommendation?

A. BitLocker Drive Encryption (BitLocker)

B. Azure Storage Service Encryption

C. client-side encryption

D. Azure Disk Encryption

Correct Answer: D

Reference: https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview

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QUESTION 4

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.

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 |

QUESTION 5

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.

You are designing an Azure solution for a company that wants to move a .NET Core web application from an on-premises data center to Azure. The web application relies on a Microsoft SQL Server 2016 database on Windows Server 2016.

The database server will not move to Azure.

A separate networking team is responsible for configuring network permissions.

The company uses Azure ExpressRoute and has an ExpressRoute gateway connected to an Azure virtual network named VNET1.

You need to recommend a solution for deploying the web application.

Solution: Deploy the web application to a web app hosted in a Premium App Service plan. Configure VNET Integration for the App Service plan.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

VNet Integration gives your web app access to resources in your virtual network. VNet Integration is often used to enable access from apps to a databases and web services running in your VNet.

Reference: https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet

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QUESTION 6

You have an Azure subscription that contains several resource groups, including a resource group named RG1. RG1 contains several business-critical resources.

A user named admin1 is assigned the Owner role to the subscription.

You need to prevent admin1 from modifying the resources in RG1. The solution must ensure that admin1 can manage the resources in the other resource groups.

What should you use?

A. a management group

B. an Azure policy

C. a custom role

D. an Azure blueprint

Correct Answer: C

Role-based access control (RBAC) focuses on user actions at different scopes. You might be added to the contributor role for a resource group, allowing you to make changes to that resource group. Incorrect Answers:

A: If your organization has many subscriptions, you may need a way to efficiently manage access, policies, and compliance for those subscriptions. Azure management groups provide a level of scope above subscriptions.

B: There are a few key differences between Azure Policy and role-based access control (RBAC). Azure Policy focuses on resource properties during deployment and for already existing resources. Azure Policy controls properties such as the types or locations of resources. Unlike RBAC, Azure Policy is a default allow and explicit deny system.

D: Azure Blueprints enables cloud architects and central information technology groups to define a repeatable set of Azure resources that implements and adheres to an organization\\'s standards, patterns, and requirements.

Reference: https://docs.microsoft.com/en-us/azure/role-based-access-control/overview

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QUESTION 7

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 clustern that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux.

You plan to migrate the virtual machines to an Azure subscription.

You need to recommend a solution to 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.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

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

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QUESTION 8

You are designing an Azure Web App that includes many static content files.

The application is accessed from locations all over the world by using a custom domain name.

You need to recommend an approach for providing access to the static content with the least amount of latency.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Configure a custom domain name that is an alias for the Azure Storage domain.

B. Configure a CNAME DNS record for the Azure Content Delivery Network (CDN) domain.

C. Place the static content in Azure Table storage.

D. Place the static content in Azure Blob storage and enable Content Delivery Network (CDN) on the account.

Correct Answer: BD

D: Add Azure Content Delivery Network (CDN) to a web app in Azure App Service.

B: When you use a CDN endpoint to deliver content, a custom domain is necessary if you would like your own domain name to be visible in your CDN URL. Having a visible domain name can be convenient for your customers and useful for

branding purposes.

Create a CNAME DNS record, and associate the custom domain with your CDN endpoint.

Reference:

https://docs.microsoft.com/en-us/azure/cdn/cdn-map-content-to-custom-domain

https://docs.microsoft.com/en-us/azure/cdn/cdn-add-to-web-app

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QUESTION 9

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains several administrative user accounts. You need to recommend a solution to identify which administrative user accounts have NOT signed in during the previous 30 days. Which service should you include in the recommendation?

A. Azure AD Identity Protection

B. Azure Activity Log

C. Azure Advisor

D. Azure AD Privileged Identity Management (PIM)

Correct Answer: D

QUESTION 10

Your network contains an on-premises Active Directory forest named contoso.com. The forest is synced to an Azure Active Directory (Azure AD) tenant named contoso.com and an Azure AD Domain Services (Azure AD DS) domain named

contoso-aad.com.

You have an Azure Storage account named Storage1 that contains a file share named Share1.

You configure NTFS permissions on Share1. You plan to deploy a virtual machine that will be used by several users to access Share1.

You need to ensure that the users can access Share1.

Which type virtual machine should you deploy?

A. a virtual machine that runs Windows Server 2016 and is joined to the contoso.com domain

B. a virtual machine that runs Windows 10 and is joined to the contoso-add.com domain

C. a virtual machine that runs Windows 10 and is hybrid Azure AD joined to the contoso.com domain

D. an Azure virtual machine that runs Windows Server 2016 and is joined to the contoso-add.com domain

Correct Answer: D

You join the Windows Server virtual machine to the Azure AD DS-managed domain, here named contoso-aad.com.

Note: Azure Files supports identity-based authentication over SMB (Server Message Block) (preview) through Azure Active Directory (Azure AD) Domain Services. Your domain-joined Windows virtual machines (VMs) can access Azure file

shares using Azure AD credentials.

Incorrect Answers:

B, C: Azure AD authentication over SMB is not supported for Linux VMs for the preview release. Only Windows Server VMs are supported.

Reference:

https://docs.microsoft.com/en-us/azure/storage/files/storage-files-active-directory-enable#mount-a-file-share-from-a-domain-joined-vm

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QUESTION 11

You need to recommend a solution for the network configuration of the front-end tier of the payment processing. What should you include in the recommendation?

A. Azure Application Gateway

B. Traffic Manager

C. a Standard Load Balancer

D. a Basic load Balancer

Correct Answer: C

Scenario:

1.

Ensure that the number of compute nodes of the front-end and the middle tiers of the payment processing system can increase or decrease automatically based on CPU utilization.

2.

Ensure that each tier of the payment processing system is subject to a Service Level Agreement (SLA) of 99.99 percent availability.

With Azure Load Balancer, you can scale your applications and create high availability for your services.

Load Balancer supports inbound and outbound scenarios, provides low latency and high throughput, and scales up to millions of flows for all TCP and UDP applications.

Azure Load Balancer is available in two SKUs: Basic and Standard. There are differences in scale, features, and pricing. Standard SLA guarantees a 99.99% for data path with two healthy virtual machines. Basic SLA does not exist.

Reference:

https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview

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QUESTION 12

You plan to create an Azure Cosmos DB account that uses the SQL API. The account will contain data added by a web application. The web application will send data daily. You need to recommend a notification solution that meets the following requirements:

1.

 Sends email notification when data is received from IoT devices.

2.

 Minimizes compute cost.

What should you include in the recommendation?

A. Deploy an Azure logic app that has the Azure Cosmos DB connector configured to use a SendGrid action.

B. Deploy a function app that is configured to use the Consumption plan and a SendGrid binding.

C. Deploy an Azure logic app that has a SendGrid connector configured to use an Azure Cosmos DB action.

D. Deploy a function app that is configured to use the Consumption plan and an Azure Event Hubs binding.

E. Deploy an Azure logic app that has a webhook configured to use a SendGrid action.

Correct Answer: B

You can send email by using SendGrid bindings in Azure Functions. Azure Functions supports an output binding for SendGrid.

Note: When you\\'re using the Consumption plan, instances of the Azure Functions host are dynamically added and removed based on the number of incoming events.

Reference:

https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-sendgrid

https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#consumption-plan

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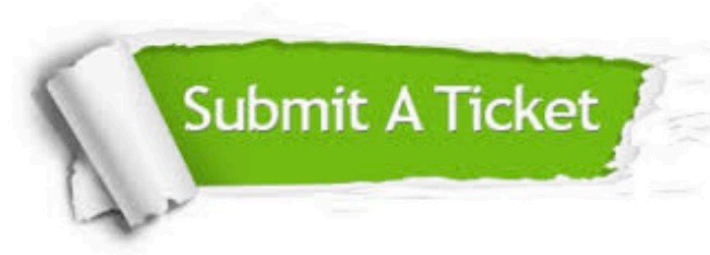
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