AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

DRAG DROP

Your company has an existing web app that runs on Azure virtual machines.

You need to ensure that the app is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruptions to the code of the app.

What should you recommend? To answer, drag the appropriate services to the correct targets. Each service 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:

Services

Web Application Firewall (WAF)

Azure Application Gateway

Azure Load Balancer

Azure Traffic Manager

SSL offloading

URL-based content routing

Answer Area

Azure service: | Service |

Feature: | Service |

Correct Answer:

Services		Answer Area	
		Azure service:	Azure Application Gateway
		Feature:	Web Application Firewall (WAF)
Azure Load Balancer	○		
Azure Traffic Manager	○		
SSL offloading	○		
URL-based content routing	○		

Box 1: Azure Application Gateway

The Azure Application Gateway Web Application Firewall (WAF) provides protection for web applications. These protections are provided by the Open Web Application Security Project (OWASP) Core Rule Set (CRS).

Box 2: Web Application Firewall (WAF)

Reference:

https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/application-gateway-customize-waf-rules-portal

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QUESTION 2

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.

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy initiative to enforce the location.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.

Reference: https://docs.microsoft.com/en-us/azure/governance/policy/overview

QUESTION 3

You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.

You need to recommend a solution to provision and manage the HPC cluster node.

What should you include in the recommendation?

A. Azure Lighthouse

B. Azure CycleCloud

C. Azure Purview

D. Azure Automation

Correct Answer: B

You can dynamically provision Azure HPC clusters with Azure CycleCloud. Azure CycleCloud is the simplest way to manage HPC workloads.

Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads.

Reference: https://docs.microsoft.com/en-us/azure/cyclecloud/overview

QUESTION 4

You are developing an application that will enable users to download content from an Azure Storage account.

The users must only be able to download the content for a period of seven days.

You need to recommend an authentication solution to access the storage account.

What should you include in the recommendation?

A. shared access signature (SAS) tokens

B. identity-based authentication that uses Active Directory Domain Services (AD DS)

C. storage access key

D. identity-based authentication that uses Azure Active Directory (Azure AD)

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview

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QUESTION 5

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
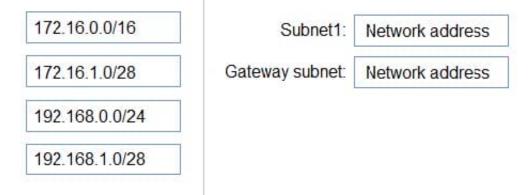
between panes or scroll to view content

NOTE: Each correct selection is worth one point.

Select and Place:

Network Addresses	Answer Area
172.16.0.0/16	Subnet1: Network address
172.16.1.0/28	Gateway subnet: Network address
192.168.0.0/24	
192.168.1.0/28	

Correct Answer:

Network Addresses	Answer Area
172.16.0.0/16	Subnet1: 192.168.0.0/24
172.16.1.0/28	Gateway subnet: 192.168.1.0/28

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