



AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

HOTSPOT

You have an Azure subscription that contains multiple storage accounts.

You assign Azure Policy definitions to the storage accounts.

You need to recommend a solution to meet the following requirements:

1. Trigger on-demand Azure Policy compliance scans.
 2. Raise Azure Monitor non-compliance alerts by querying logs collected by Log Analytics.
- What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To trigger the compliance scans, use:

An Azure template
The Azure Command-Line Interface (CLI)
The Azure portal

To generate the non-compliance alerts, configure diagnostic settings for the:

Azure activity logs
Log Analytics workspace
Storage accounts

Correct Answer:

Answer Area

To trigger the compliance scans, use:

An Azure template
The Azure Command-Line Interface (CLI)
The Azure portal

To generate the non-compliance alerts, configure diagnostic settings for the:

Azure activity logs
Log Analytics workspace
Storage accounts

Reference: <https://learn.microsoft.com/en-us/azure/governance/policy/how-to/get-compliance-data>

QUESTION 2



DRAG DROP

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Log Analytics design an alerting strategy for security-related events.

Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value 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:

Tables	Answer Area
AzureActivity	Events from Windows event logs: <input type="text" value="Table"/>
AzureDiagnostics	Events from Linux system logging: <input type="text" value="Table"/>
Event	
Syslog	

Correct Answer:

Tables	Answer Area
AzureActivity	Events from Windows event logs: <input type="text" value="Event"/>
AzureDiagnostics	Events from Linux system logging: <input type="text" value="Syslog"/>

Windows Event logs --> Information sent to the Windows event logging system. Syslog -->Information sent to the Linux event logging system.

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/log-analytics-agent>

**QUESTION 3**

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>

QUESTION 4

You have an Azure subscription. The subscription contains a tiered app named App1 that is distributed across multiple containers hosted in Azure Container Instances.

You need to deploy an Azure Monitor monitoring solution for App. The solution must meet the following requirements:

Support using synthetic transaction monitoring to monitor traffic between the App1 components.

Minimize development effort.

What should you include in the solution?

A. Network insights

B. Application Insights



C. Container insights

D. Log Analytics Workspace insights

Correct Answer: B

Application Insights provides other features including, but not limited to:

*

Availability: Also known as synthetic transaction monitoring. Probe the external endpoints of your applications to test the overall availability and responsiveness over time.

*

Etc.

Note: Synthetic monitoring is the use of software to simulate user interactions with a system. The data generated from the simulated transactions is then analyzed to evaluate how the system behaves.

Reference:

<https://learn.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

QUESTION 5

HOTSPOT

You have the resources shown in the following table.

Name	Type	Resource group
VM1	Azure virtual machine	RG1
VM2	On-premises virtual machine	Not applicable

You create a new resource group in Azure named RG2.

You need to move the virtual machines to RG2.

What should you use to move each virtual machine? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

VM1

	▼
Azure Arc	
Azure Lighthouse	
Azure Migrate	
Azure Resource Mover	
The Data Migration Assistant (DMA)	

VM2

	▼
Azure Arc	
Azure Lighthouse	
Azure Migrate	
Azure Resource Mover	
The Data Migration Assistant (DMA)	

Correct Answer:



Answer Area

VM1

	▼
Azure Arc	
Azure Lighthouse	
Azure Migrate	
Azure Resource Mover	
The Data Migration Assistant (DMA)	

VM2

	▼
Azure Arc	
Azure Lighthouse	
Azure Migrate	
Azure Resource Mover	
The Data Migration Assistant (DMA)	

Box 1: Azure Resource Mover

To move Azure VMs to another region, Microsoft now recommends using Azure Resource Mover.

Incorrect:

Not Azure Migrate: We are not migrating, only moving a VM between resource groups.

Box 2: Azure Migrate

Azure Migrate provides a centralized hub to assess and migrate on-premises servers, infrastructure, applications, and data to Azure.

Azure migrate includes Azure Migrate Server Migration: Migrate VMware VMs, Hyper-V VMs, physical servers, other virtualized servers, and public cloud VMs to

Azure.

Incorrect:

Not Arc: Azure Migrate is adequate. No need to use Azure Arc.

Not Data Migration Assistant: Data Migration Assistant is a stand-alone tool to assess SQL Servers.



It is used to assess SQL Server databases for migration to Azure SQL Database, Azure SQL Managed Instance, or Azure VMs running SQL Server.

Not Lighthouse: Azure Lighthouse enables multi-tenant management with scalability, higher automation, and enhanced governance across resources.

With Azure Lighthouse, service providers can deliver managed services using comprehensive and robust tooling built into the Azure platform. Customers maintain control over who has access to their tenant, which resources they can access,

and what actions can be taken.

Reference:

<https://docs.microsoft.com/en-us/azure/resource-mover/overview>

<https://docs.microsoft.com/en-us/azure/migrate/migrate-services-overview>

<https://docs.microsoft.com/en-us/azure/site-recovery/azure-to-azure-tutorial-migrate>

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