



AZ-305^{Q&As}

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

DRAG DROP

You have an Azure Active Directory (Azure AD) tenant. All user accounts are synchronized from an on-premises Active Directory domain and are configured for federated authentication. Active Directory Federation Services (AD FS) servers are published for external connections by using a farm of Web Application Proxy servers.

You need to recommend a solution to monitor the servers that integrate with Azure AD. The solution must meet the following requirements:

1.

Identify any AD FS issues and their potential resolutions.

2.

Identify any directory synchronization configuration issues and their potential resolutions

3.

Notify administrators when there are any issues affecting directory synchronization or AD FS operations.

Which monitoring solution should you recommend for each server type?

To answer, drag the appropriate monitoring solutions to the correct server types. Each monitoring solution 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:



Monitoring Solutions

- A Microsoft Office 365 management solution in Azure Log Analytics
- Active Directory Replication Status Tool
- An Active Directory Health Check solution in Azure Log Analytics
- An Active Directory Replication Status solution in Azure Log Analytics
- Azure AD Connect Health
- Azure Security Center

Answer Area

- AD FS servers:
- Azure AD Connect servers:
- Web Application Proxy servers:

Correct Answer:

Monitoring Solutions

- A Microsoft Office 365 management solution in Azure Log Analytics
- Active Directory Replication Status Tool
- An Active Directory Health Check solution in Azure Log Analytics
- An Active Directory Replication Status solution in Azure Log Analytics
- Azure AD Connect Health
- Azure Security Center

Answer Area

- AD FS servers:
- Azure AD Connect servers:
- Web Application Proxy servers:

QUESTION 2



You have an Azure subscription.

You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

1.
Only allow the creation of the virtual machines in specific regions.
2.
Only allow the creation of specific sizes of virtual machines. What should you include in the recommendation?
 - A. Conditional Access policies
 - B. role-based access control (RBAC)
 - C. Azure Resource Manager (ARM) templates
 - D. Azure Policy

Correct Answer: D

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/manage/azure-server-management/common-policies#restrict-resource-regions>

Regulatory and policy compliance often depends on control of the physical location where resources are deployed. You can use a built-in policy to allow users to create resources only in certain allowed Azure regions.

<https://learn.microsoft.com/en-us/azure/virtual-machines/policy-reference>

Allowed virtual machine size SKUs

This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy.

QUESTION 3

You have an Azure subscription named Subscription1.

You deploy a Linux virtual machine named VM1 to Subscription1.

You need to monitor the metrics and the logs of VM1.

What should you use?

- A. the Azure PerformanceDiagnostics extension
- B. Azure Analytic Services
- C. Linux Diagnostic Extension (LAD) 10
- D. Azure HDinsight

Correct Answer: A



You can use extensions to configure diagnostics on your VMs to collect additional metric data.

The basic host metrics are available, but to see more granular and VM-specific metrics, you need to install the Azure diagnostics extension on the VM. The Azure diagnostics extension allows additional monitoring and diagnostics data to be

retrieved from the VM.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/linux/tutorial-monitoring>

QUESTION 4

HOTSPOT

You have an Azure subscription named Sub1 that is linked to an Azure AD tenant named contoso.com.

You plan to implement two ASP.NET Core apps named App1 and App2 that will be deployed to 100 virtual machines in Sub1. Users will sign in to App1 and App2 by using their contoso.com credentials.

App1 requires read permissions to access the calendar of the signed-in user. App2 requires write permissions to access the calendar of the signed-in user.

You need to recommend an authentication and authorization solution for the apps. The solution must meet the following requirements:

1.

Use the principle of least privilege.

2.

Minimize administrative effort

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:



Authentication:

Application registration in Azure AD
A system-assigned managed identity
A user-assigned managed identity

Authorization:

Application permissions
Azure role-based access control(Azure RBAC)
Delegated permissions

Correct Answer:



Authentication:

Application registration in Azure AD
A system-assigned managed identity
A user-assigned managed identity

Authorization:

Application permissions
Azure role-based access control(Azure RBAC)
Delegated permissions

QUESTION 5

You have an Azure subscription.

You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes.

The solution must meet the following requirements:

1.

Minimize the time it takes to provision compute resources during scale-out operations.

2.

Support autoscaling of Windows Server containers. Which scaling option should you recommend?

A. cluster autoscaler

B. horizontal pod autoscaler

C. Kubernetes version 1.20.2 or newer



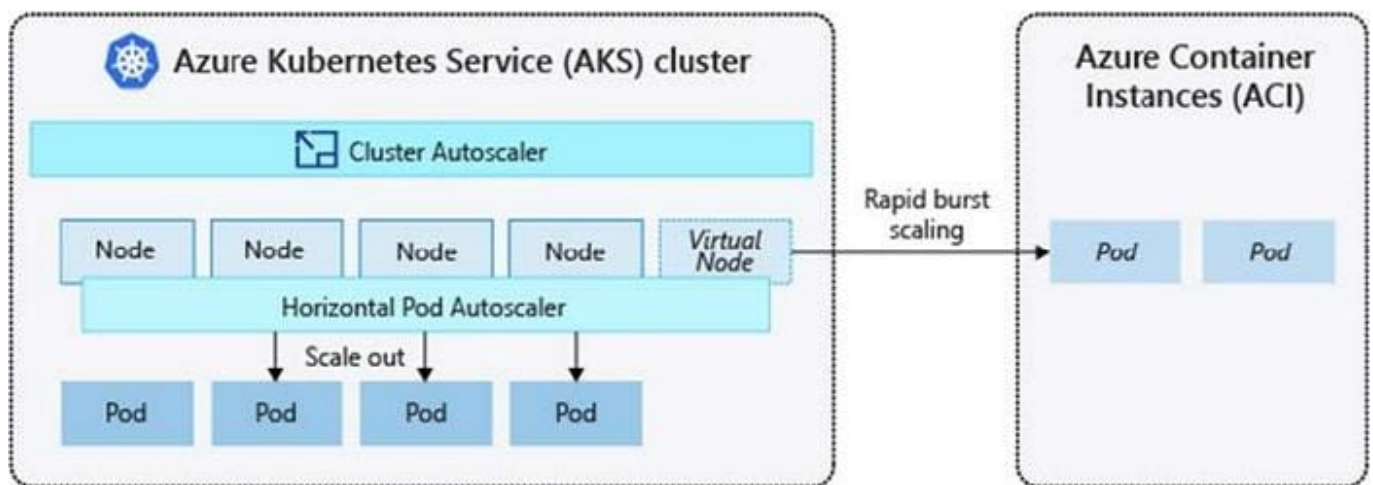
D. Virtual nodes with Virtual Kubelet ACI

Correct Answer: D

Azure Container Instances (ACI) lets you quickly deploy container instances without additional infrastructure overhead. When you connect with AKS, ACI becomes a secured, logical extension of your AKS cluster. The virtual nodes

component, which is based on Virtual Kubelet, is installed in your AKS cluster that presents ACI as a virtual Kubernetes node. Kubernetes can then schedule pods that run as ACI instances through virtual nodes, not as pods on VM nodes directly in your AKS cluster.

Your application requires no modification to use virtual nodes. Deployments can scale across AKS and ACI and with no delay as cluster autoscaler deploys new nodes in your AKS cluster.



Note: AKS clusters can scale in one of two ways:

The cluster autoscaler watches for pods that can't be scheduled on nodes because of resource constraints. The cluster then automatically increases the number of nodes.

The horizontal pod autoscaler uses the Metrics Server in a Kubernetes cluster to monitor the resource demand of pods. If an application needs more resources, the number of pods is automatically increased to meet the demand.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/concepts-scale5>

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