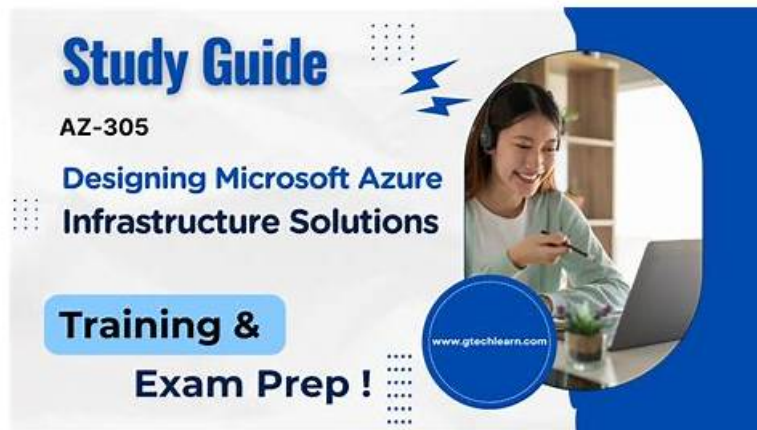


# AZ-305 study materials: Designing Microsoft Azure Infrastructure Solutions & AZ-305 test simulate material



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Microsoft Azure is a cloud computing platform that is rapidly gaining popularity among businesses looking for cost-effective and scalable solutions for their IT needs. As more and more companies migrate their operations to the cloud, the demand for skilled Azure professionals is growing. To help professionals validate their Azure expertise, Microsoft has created a range of certification exams, including the AZ-305 (Designing Microsoft Azure Infrastructure Solutions) exam.

Microsoft AZ-305: Designing Microsoft Azure Infrastructure Solutions is a certification exam that is designed for IT professionals who want to validate their skills in designing and implementing solutions on Microsoft Azure. AZ-305 exam is a part of the Microsoft Certified: Azure Solutions Architect Expert certification and assesses the knowledge and expertise of the candidate in designing and implementing solutions that are secure, scalable, and highly available.

Microsoft AZ-305 Certification Exam is an advanced-level exam designed for IT professionals who want to become skilled in designing Microsoft Azure infrastructure solutions. It covers a wide range of topics, including compute, storage, networking, and security solutions in Azure, and is beneficial for IT professionals who want to advance their careers and gain recognition for their expertise in Azure infrastructure design. Candidates can prepare for the exam by studying the exam objectives, taking online or instructor-led training, and taking practice exams to assess their readiness.

>> AZ-305 Real Exams <<

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## Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q94-Q99):

### NEW QUESTION # 94

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:  
 Minimize the time it takes to provision compute resources during scale-out operations.  
 Support autoscaling of Windows Server containers.  
 Which scaling option should you recommend?

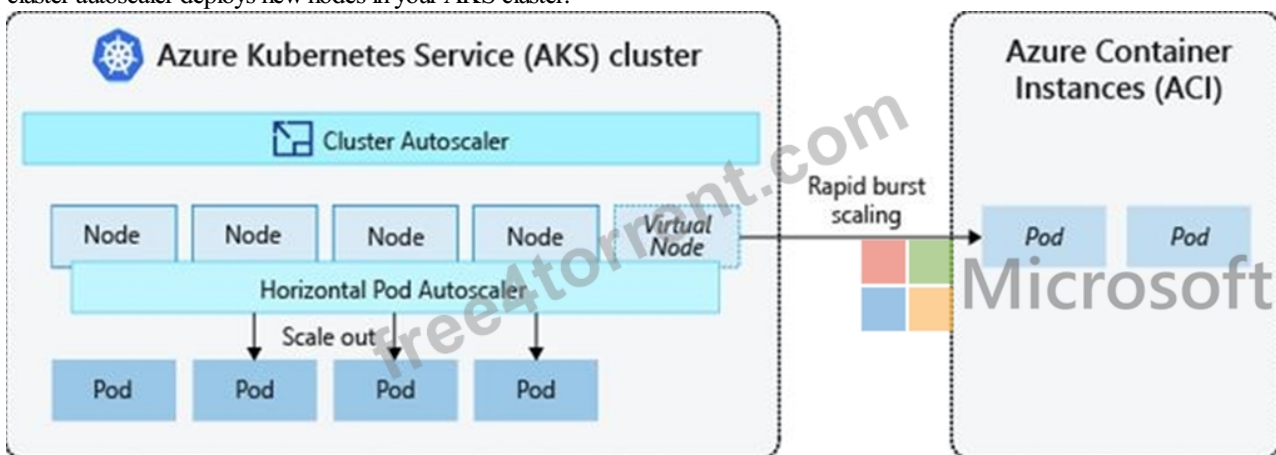
- A. Kubernetes version 1.20.2 or newer
- **B. Virtual nodes with Virtual Kubelet ACI**
- C. cluster autoscaler
- D. horizontal pod autoscaler

**Answer: B**

Explanation:

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>

### NEW QUESTION # 95

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 deploys several virtual machines on-premises and to Azure. ExpressRoute is deployed and configured for on-premises to Azure connectivity.

Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Advisor to analyze the network traffic.

Does this meet the goal?

- **A. No**
- B. Yes

**Answer: A**

Explanation:

Instead use Azure Network Watcher IP Flow Verify, which allows you to detect traffic filtering issues at a VM level.

Note: IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned.

While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

Reference:

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

#### NEW QUESTION # 96

You need to design a highly available Azure SQL database that meets the following requirements:

- \* Failover between replicas of the database must occur without any data loss.
- \* The database must remain available in the event of a zone outage.
- \* Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Standard
- B. Azure SQL Database Business Critical
- C. Azure SQL Database Serverless
- D. Azure SQL Database Managed Instance Business Critical

**Answer: C**

Explanation:

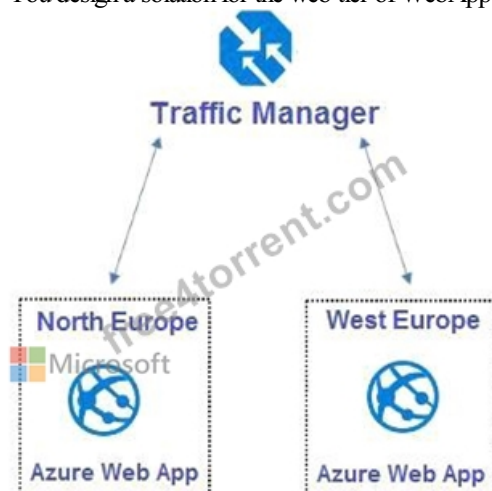
General Purpose / Standard prevents data loss through high available storage <https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-general-purpose?view=azuresql>. This architectural model relies on high availability and reliability of Azure Blob storage that transparently replicates database files and guarantees no data loss if underlying infrastructure failure happens.

General Purpose / Standard support Zone Redundancy For General Purpose tier the zone-redundant configuration is Generally Available in the following regions: <https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla?view=azuresql&tabs=azure-powershell> Without any information regarding the usage pattern, serverless is possible. Other option is D

<https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview?view=azuresql>

#### NEW QUESTION # 97

You design a solution for the web tier of WebApp1 as shown in the exhibit.



For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Explanation:

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input checked="" type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input checked="" type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input type="radio"/>	<input checked="" type="radio"/>

Box 1: Yes

Any new deployments to Azure must be redundant in case an Azure region fails.

Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models.

Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Box 2: Yes

Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e.

Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).

Box 3: No

Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

<https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/>

## NEW QUESTION # 98

You plan to develop a new app that will store business critical data

a. The app must meet the following requirements:

- \* Prevent new data from being modified for one year.
- \* Maximize data resiliency.
- \* Minimize read latency.

What storage solution should you recommend for the app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

Storage Account type:

Standard general-purpose v1  
Standard general-purpose v2  
Premium block blobs

These are the selections for Storage Account type.

Redundancy:

Zone-redundant storage (ZRS)  
Locally-redundant storage (LRS)  
Read-access geo-redundant storage (RA-GRS)

**Answer:**

**Explanation:**

**Answer Area**

Storage Account type:

Standard general-purpose v1  
Standard general-purpose v2  
Premium block blobs

These are the selections for Storage Account type.

Redundancy:

Zone-redundant storage (ZRS)  
Locally-redundant storage (LRS)  
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## NEW QUESTION # 99

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For the recognition of skills and knowledge, more career opportunities, professional development, and higher salary potential, the Microsoft AZ-305 certification exam is the proven way to achieve these tasks quickly. Overall, we can say that with the Designing Microsoft Azure Infrastructure Solutions (AZ-305) exam you can gain a competitive edge in your job search and advance your career in the tech industry.

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