



# AZ-304<sup>Q&As</sup>

Microsoft Azure Architect Design Exam

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## QUESTION 1

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.

A company has custom ASP.NET and Java applications that run old versions of Windows and Linux. The company plans to place applications in containers.

You need to design a solution that includes networking, service discovery, and load balancing for the applications. The solution must support storage orchestration.

Solution: You create an Azure virtual network, public IP address, and load balancer. Then add virtual machines (VMs) to the solution and deploy individual containers on them.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead you should deploy each application to an Azure Container instance.

Note: Docker Containers are the global standard and are natively supported in Azure, offering enterprises an interesting and flexible way to migrate legacy apps for both future proofing and cost benefits.

Reference:

<https://docs.microsoft.com/en-us/dotnet/standard/modernize-with-azure-and-containers/modernize-existing-apps-to-cloud-optimized/deploy-existing-net-apps-as-windows-containers>

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## QUESTION 2

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What should you include in the recommendation?

A. Azure Service Bus

B. Azure Blob storage



C. Azure Service Fabric

D. Azure Notification Hubs

Correct Answer: A

Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.

Incorrect Answers:

D: Azure Notification Hubs is a massively scalable mobile push notification engine for quickly sending millions of notifications to iOS, Android, Windows, or Kindle devices.

References: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions>

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### QUESTION 3

You are designing a solution for a company to deploy software for testing and production. The solution must meet the following requirements:

1.  
Applications must be deployed to several different environments and must run without installation of dependencies.

2.  
Existing published application must be ported to the new solution.

3.  
Application developers must be given flexibility when architecting their code.

You need to recommend a solution for hosting applications.

What should you select?

- A. Azure worker role
- B. Azure Kubernetes Service
- C. Azure Functions
- D. Azure Batch

Correct Answer: B

Kubernetes is open-source orchestration software for deploying, managing, and scaling containers. The fully managed Azure Kubernetes Service (AKS) makes deploying and managing containerized applications easy. It offers serverless Kubernetes.

Reference: <https://azure.microsoft.com/en-us/services/kubernetes-service/>

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#### QUESTION 4

You deploy Azure App Service Web Apps that connect to on-premises Microsoft SQL Server instances by using Azure ExpressRoute. You plan to migrate the SQL Server instances to Azure. Migration of the SQL Server instances to Azure must:

1.

Support automatic patching and version updates to SQL Server.

2.

Provide automatic backup services.

3.

Allow for high-availability of the instances.

4.

Provide a native VNET with private IP addressing.

5.

Encrypt all data in transit.

6.

Be in a single-tenant environment with dedicated underlying infrastructure (compute, storage)

You need to migrate the SQL Server instances to Azure. Which Azure service should you use?

A. SQL Server Infrastructure-as-a-Service (IaaS) virtual machine (VM)

B. Azure SQL Database with elastic pools

C. SQL Server in a Docker container running on Azure Container Instances (ACI)

D. Azure SQL Database Managed Instance

E. SQL Server in Docker containers running on Azure Kubernetes Service (AKS)

Correct Answer: D

Azure SQL Database Managed Instance configured for Hybrid workloads. Use this topology if your Azure SQL Database Managed Instance is connected to your on-premises network. This approach provides the most simplified network

routing and yields maximum data throughput during the migration.

Reference:

<https://docs.microsoft.com/en-us/azure/dms/resource-network-topologies>

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#### QUESTION 5



Your company purchases an app named App1.

You plan to run App1 on seven Azure virtual machines in an Availability Set. The number of fault domains is set to 3. The number of update domains is set to 20.

You need to identify how many App1 instances will remain available during a period of planned maintenance.

How many App1 instances should you identify?

- A. 1
- B. 2
- C. 6
- D. 7

Correct Answer: C

Only one update domain is rebooted at a time. Here there are 7 update domain with one VM each (and 13 update domain with no VM).

Reference: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/manage-availability>

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