AZ-305 Q&As

Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

DRAG DROP

You have an Azure Synapse instance named AS1 and an Azure Cosmos DB SQL API account named CDB1. CDB1 hosts a container that stores continuously updated operational data.

You plan to use AS1 to analyze the operational data daily.

You need to configure CDB1 to support the analysis by AS1. The solution must meet the following requirements:

1.

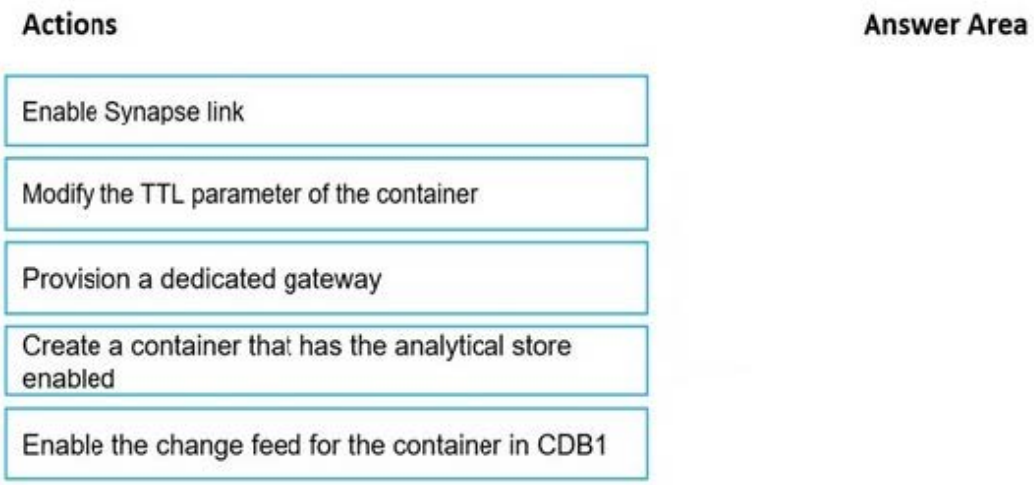
Ensure that AS1 can analyze the operational data without reducing the performance of operations.

2.

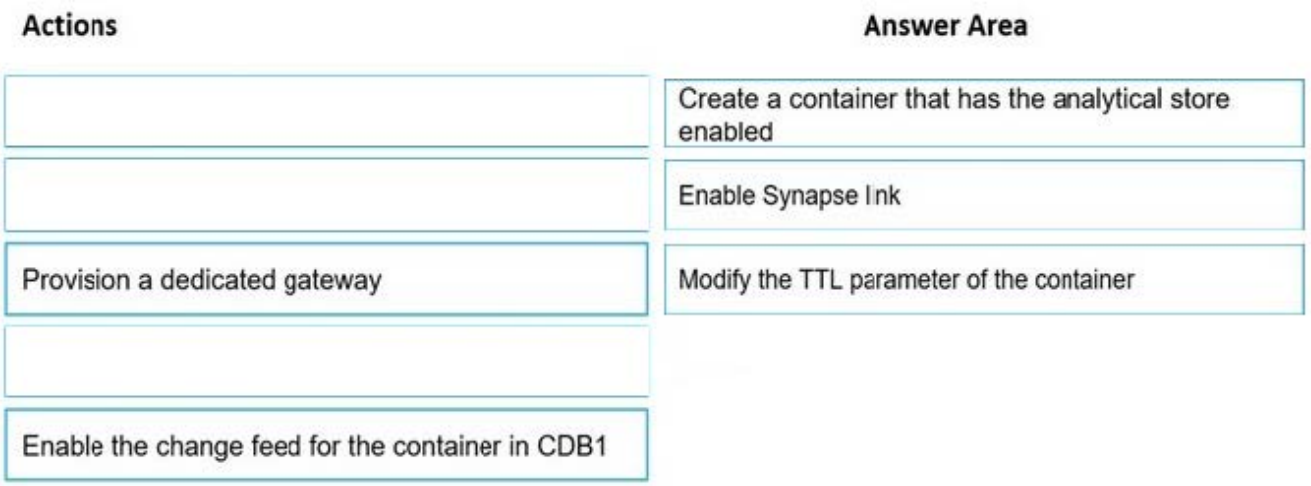
Ensure that the analyzed data is deleted automatically.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



Step 1: Create a container that has the analytic store enabled.

Create an analytical store enabled container.

You can turn on analytical store when creating an Azure Cosmos DB container by using one of the following options.

1.

Sign in to the Azure portal or the Azure Cosmos DB Explorer.

2.

Navigate to your Azure Cosmos DB account and open the Data Explorer tab.

3.

Select New Container and enter a name for your database, container, partition key and throughput details. Turn on the Analytical store option.

4.

If you have previously not enabled Synapse Link on this account, it will prompt you to do so because it\\'s a pre-requisite to create an analytical store enabled container.

Step 2: Enable Synapse link

Azure Synapse Link allows you to directly access Azure Cosmos DB analytical store using Azure Synapse Analytics without complex data movement. Any updates made to the operational data are visible in the analytical store in near real-

time with no ETL or change feed jobs.

Step 3: Modify the TTL parameter of the container

After you enable the analytical store, it creates a container with analytical TTL property set to the default value of -1 (infinite retention). This setting can be changed later.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/configure-synapse-link

QUESTION 2

You architect a solution that calculates 3D geometry from height-map data.

You have the following requirements:

Perform calculations in Azure.

Each node must communicate data to every other node.

Maximize the number of nodes to calculate multiple scenes as fast as possible.

Require the least amount of effort to implement.

You need to recommend a solution.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Create a render farm that uses Azure Batch.

B. Enable parallel file systems on Azure.

C. Enable parallel task execution on compute nodes.

D. Create a render farm that uses virtual machine (VM) scale sets.

E. Create a render farm that uses virtual machines (VMs).

Correct Answer: AC

QUESTION 3

Your on-premises datacenter contains a server that runs Linux and hosts a Java app named App1. App1 has the following characteristics:

App1 is an interactive app that users access by using HTTPS connections.

1.

The number of connections to App1 changes significantly throughout the day.

2.

App1 runs multiple concurrent instances.

3.

App1 requires major changes to run in a container.

4.

You plan to migrate App1 to Azure.

You need to recommend a compute solution for App1. The solution must meet the following requirements:

1.

The solution must run multiple instances of App1.

2.

The number of instances must be managed automatically depending on the load.

3.

Administrative effort must be minimized.

What should you include in the recommendation?

A. Azure Batch

B. Azure App Service

C. Azure Kubernetes Service (AKS)

D. Azure Virtual Machine Scale Sets

Correct Answer: B

Azure Virtual Machine Scale Sets let you create and manage a group of load balanced VMs. The number of VM instances can automatically increase or decrease in response to demand or a defined schedule. Scale sets provide the following key benefits:

Easy to create and manage multiple VMs Provides high availability and application resiliency by distributing VMs across availability zones or fault domains Allows your application to automatically scale as resource demand changes Works at large-scale

Incorrect:

* Azure Kubernetes Service (AKS)

Azure Kubernetes Service (AKS) requires more administrative effort-

Note:

You can scale applications in Azure Kubernetes Service (AKS).

Windows and Linux based AKS clusters are supported.

Cluster node and pod scaling

As demand for resources change, the number of cluster nodes or pods that run your services automatically scales up or down. You can adjust both the horizontal pod autoscaler or the cluster autoscaler to adjust to demands and only run

necessary resources.

Azure Linux nodes

The Azure Linux container host for AKS is an open-source Linux distribution created by Microsoft, and it\\'s available as a container host on Azure Kubernetes Service (AKS). The Azure Linux container host for AKS provides reliability and

consistency from cloud to edge across the AKS, AKS-HCI, and Arc products. You can deploy Azure Linux node pools in a new cluster, add Azure Linux node pools to your existing Ubuntu clusters, or migrate your Ubuntu nodes to Azure

Linux nodes.

Reference:

https://learn.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview

https://learn.microsoft.com/en-us/azure/aks/intro-kubernetes

QUESTION 4

You create an Azure Kubernetes Service (AKS) duster and an Azure Container Registry.

You need to perform continuous deployments of a containerized application to the AKS cluster as soon as the image updates in the registry.

What should you use to perform the deployments?

A. an Azure Pipelines release pipeline

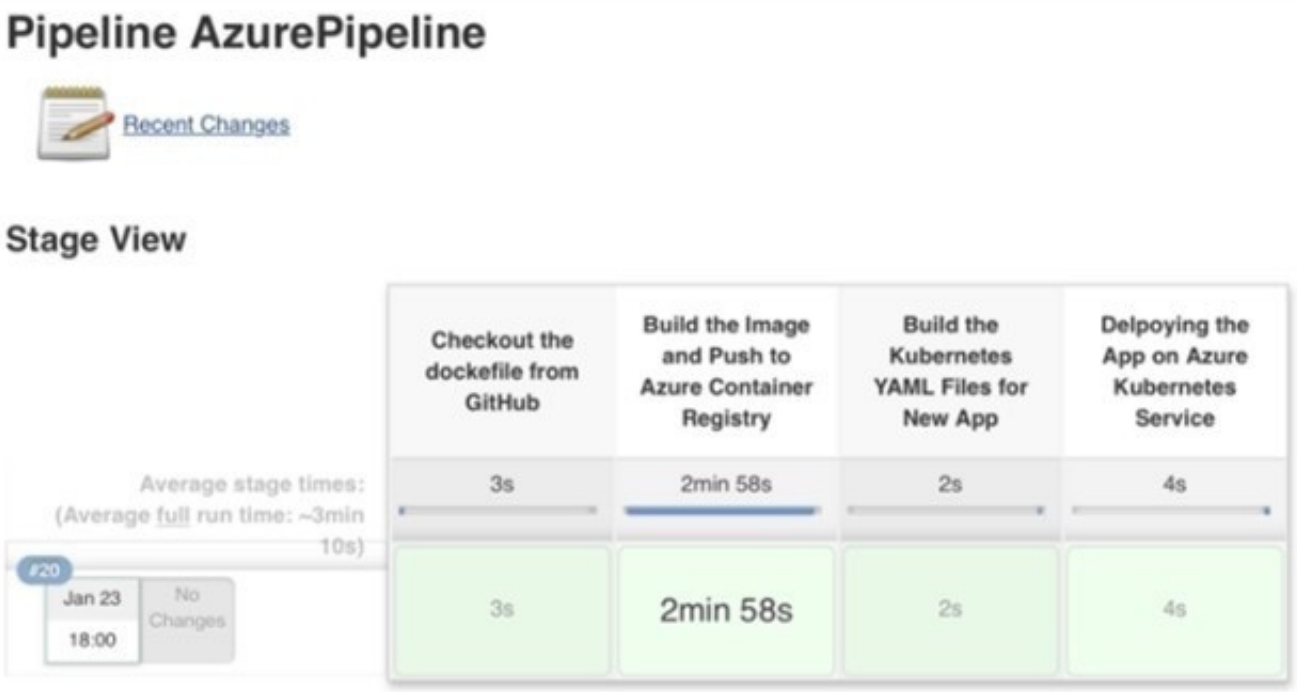
B. an Azure Automation runbook

C. an Azure Resource Manager template

D. a kubectl script from a CRON job

Correct Answer: A

You can implement a Continuous Deployment pipeline. Example:



What the pipeline accomplishes :

Stage 1: The code gets pushed in the Github. The Jenkins job gets triggered automatically.

The Dockerfile is checked out from Github.

Stage 2: Docker builds an image from the Dockerfile and then the image is tagged with the build number. Additionally, the latest tag is also attached to the image for the containers to use. Stage 3: We have default deployment and service

YAML files stored on the Jenkins server. Jenkins makes a copy of the default YAML files, make the necessary changes according to the build and put them in a separate folder.

Stage 4: kubectl was initially configured at the time of setting up AKS on the Jenkins server. The YAML files are fed to the kubectl util which in turn creates pods and services.

Reference:

https://medium.com/velotio-perspectives/continuous-deployment-with-azure-kubernetes-service-azure-container-registry-jenkins-ca337940151b

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QUESTION 5

HOTSPOT

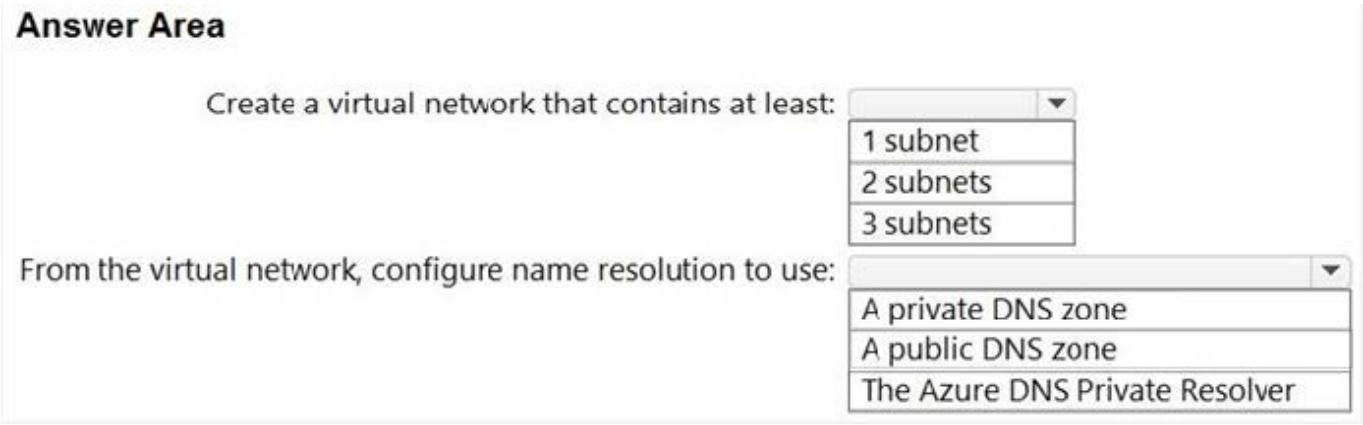
You have an Azure App Service web app named Webapp1 that connects to an Azure SQL database named DB1. Webapp1 and DB1 are deployed to the East US Azure region.

You need to ensure that all the traffic between Webapp1 and DB1 is sent via a private connection.

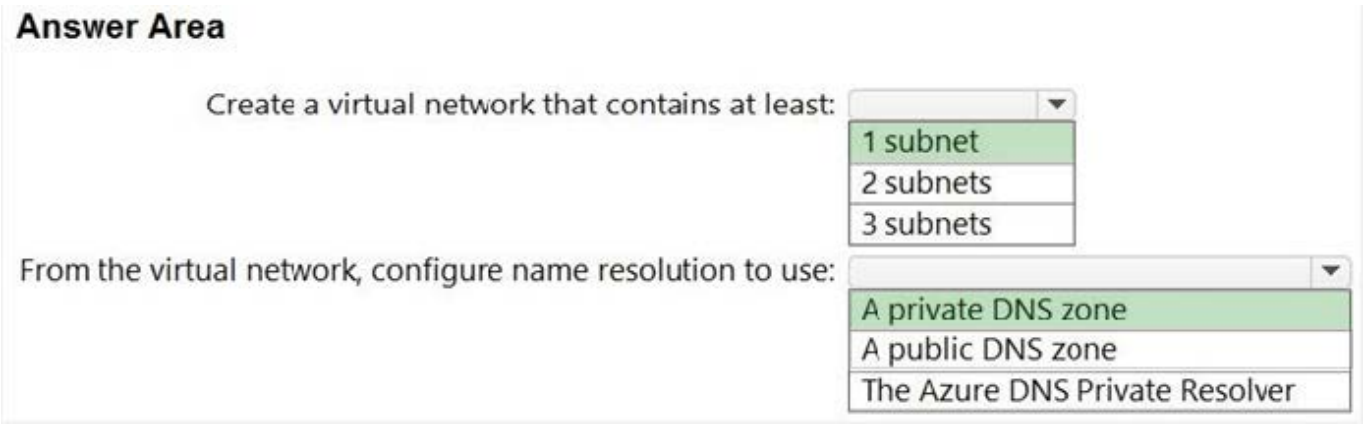
What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Reference: https://learn.microsoft.com/en-us/azure/private-link/create-private-endpoint-portal https://learn.microsoft.com/en-us/azure/private-link/private-endpoint-dns https://learn.microsoft.com/en-us/azure/dns/dns-private-resolver-overview