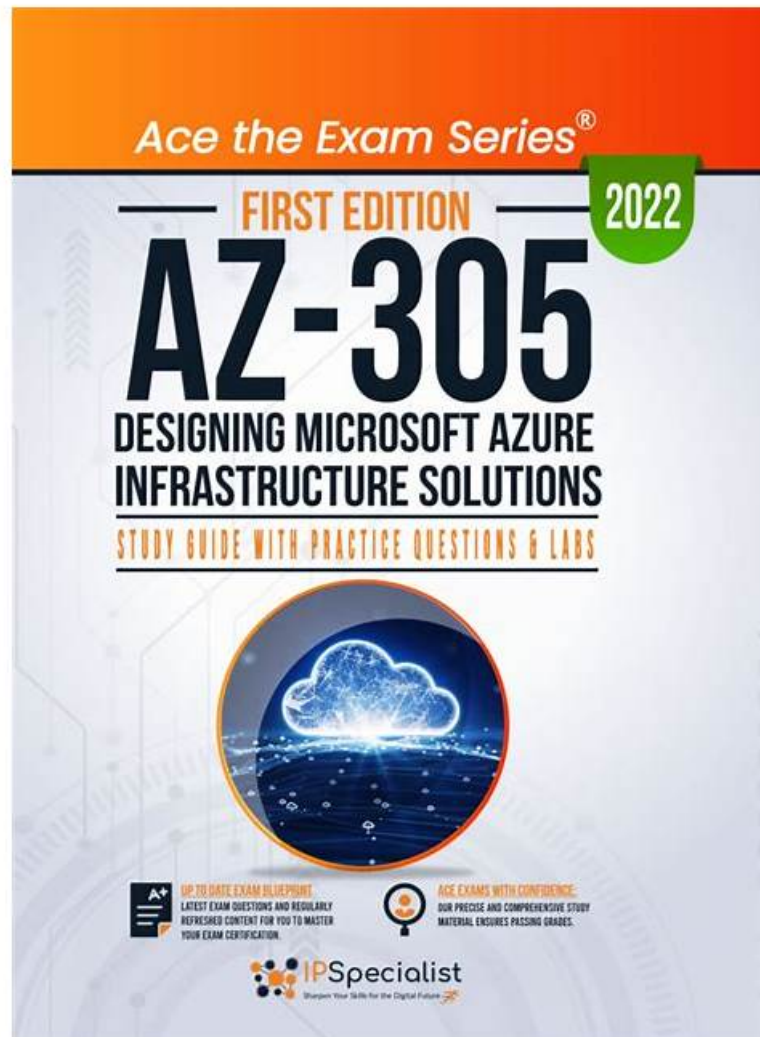


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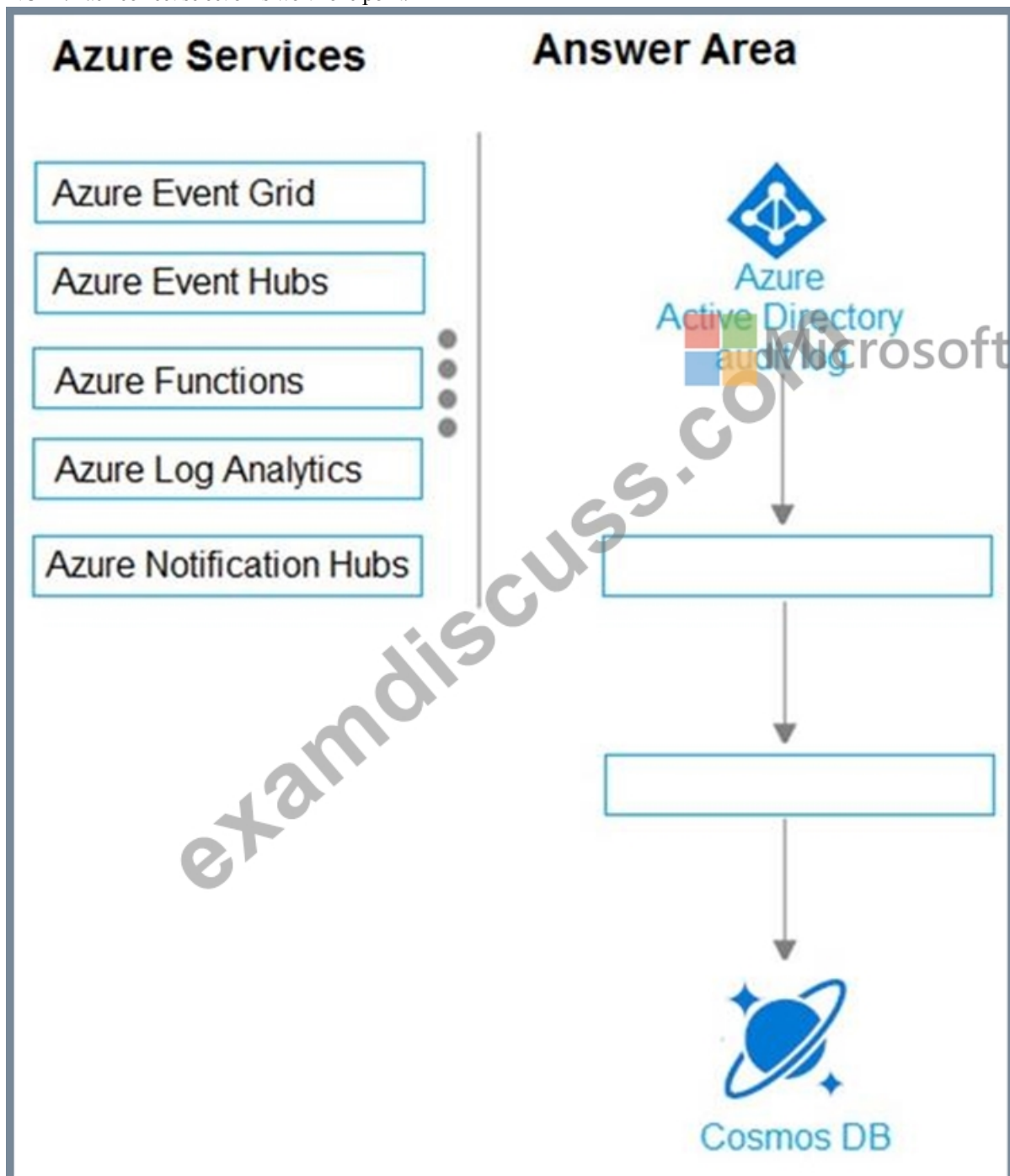
Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q25-Q30):

NEW QUESTION # 25

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

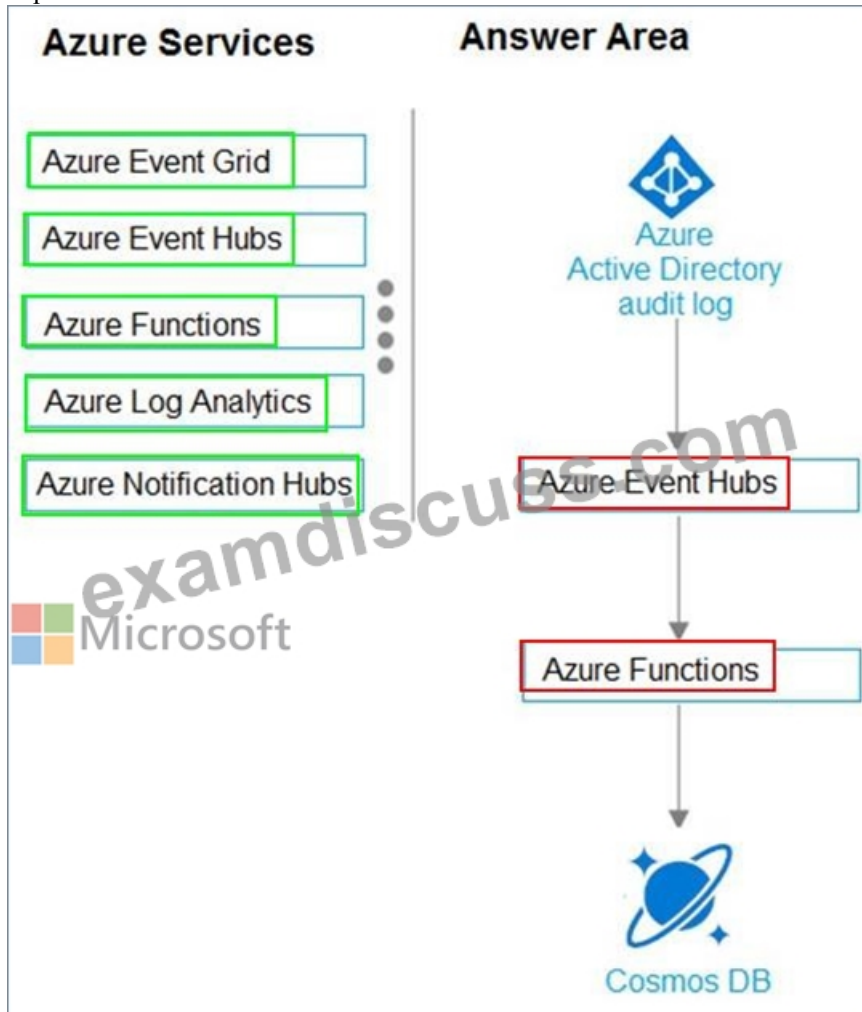
Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION # 26

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.

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)

Answer:

Explanation:

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)

NEW QUESTION # 27

You are designing a data storage solution to support reporting.

The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:

- * Organize data in directories by date and time.
- * Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
- * Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations.

Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Data store for the ingested data:

Data store for the data warehouse:

Options for Data store for the ingested data:

- Azure Data Lake Storage Gen2
- Azure Blob Storage
- Azure Data Lake Storage Gen2
- Azure Files
- Azure NetApp Files

Options for Data store for the data warehouse:

- Azure SQL Database Hyperscale
- Azure Cosmos DB for Apache Cassandra
- Azure Cosmos DB for NoSQL
- Azure SQL Database Hyperscale
- Azure Synapse Analytics dedicated SQL pools

Answer:

Explanation:

Answer Area

Data store for the ingested data:

Data store for the data warehouse:

NEW QUESTION # 28

You plan to migrate App1 to Azure.

You need to recommend a high-availability solution for App1. The solution must meet the resiliency requirements.

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.

Number of host groups:

Number of virtual machine scale sets:

Answer:

Explanation:

Number of host groups:

Number of virtual machine scale sets:

Explanation:

Number of host groups:

▼
1
2
3
6

Number of virtual machine scale sets:

▼
0
1
3

Box 1: 3

Scenario: App1 must meet the following requirements:

Be hosted in an Azure region that supports availability zones.

Maintain availability if two availability zones in the local Azure region fail.

A host group is a resource that represents a collection of dedicated hosts. You create a host group in a region and an availability zone, and add hosts to it.

Use Availability Zones for fault isolation

Availability zones are unique physical locations within an Azure region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. A host group is created in a single availability zone. Once created, all hosts will be placed within that zone. To achieve high availability across zones, you need to create multiple host groups (one per zone) and spread your hosts accordingly.

Box 2: 1

Scenario: App1 must meet the following requirements:

Be hosted on Azure virtual machines that support automatic scaling.

An Azure virtual machine scale set can automatically increase or decrease the number of VM instances that run your application.

This automated and elastic behavior reduces the management overhead to monitor and optimize the performance of your application.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/dedicated-hosts>

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview>

NEW QUESTION # 29

Hotspot Question

You have the following projects:

- Project1: The development of an app that processes scanned images stored in an Azure Blob Storage account
- Project2: The migration of an on-premises app that processes log files as they arrive in an SMB file share
- Project3: The migration of an on-premises app that processes PDF documents stored on a local file system

The projects have the requirements shown in the following table.

Project	Requirement
Project1	<ul style="list-style-type: none">• Use high-performance computing (HPC).• Scale dynamically.
Project2	<ul style="list-style-type: none">• Minimize how long it takes to spawn new processes.• Scale dynamically.
Project3	Minimize recoding requirements.

Project3 does NOT support the use of containers.

You need to recommend a compute solution for the projects.

What should you include in the recommendation for each project? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Project1:

Azure App Service
Azure Batch
Azure Container Instances
Azure Functions
Azure virtual machines

Project2:

Azure App Service
Azure Batch
Azure Container Instances
Azure Functions
Azure virtual machines

Project3:

Azure App Service
Azure Batch
Azure Container Instances
Azure Functions
Azure virtual machines

Answer:

Explanation:

Answer Area

Project1:

- Azure App Service
- Azure Batch
- Azure Container Instances
- Azure Functions
- Azure virtual machines

Project2:

- Azure App Service
- Azure Batch
- Azure Container Instances
- Azure Functions
- Azure virtual machines

Project3:

- Azure App Service
- Azure Batch
- Azure Container Instances
- Azure Functions
- Azure virtual machines

Explanation:

Box 1: Azure virtual machines

Project1: The development of an app that processes scanned images stored in an Azure Blob Storage account

- * Use high-performance computing (HPC)
- * Scale dynamically

Box 2: Azure App Service

Project2: The migration of an on-premises app that processes log files as they arrive in an SMB file share

- * Minimize how long it takes to spawn new processes
- * Scale dynamically
- * spawn new processes

Box 3: Azure Batch

Project3: The migration of an on-premises app that processes PDF documents stored on a local file system

- * Minimize recoding requirements

Reference:

<https://learn.microsoft.com/en-us/azure/architecture/topics/high-performance-computing>

<https://learn.microsoft.com/en-us/azure/batch/batch-technical-overview>

<https://learn.microsoft.com/en-us/azure/architecture/best-practices/auto-scaling>

<https://learn.microsoft.com/en-us/azure/app-service/webjobs-create>

NEW QUESTION # 30

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