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## AZ-305 Q&As

Designing Microsoft Azure Infrastructure Solutions

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The AZ-305 Certification Exam is a two-part exam that covers a range of topics related to designing Azure infrastructure solutions. The first part of the exam focuses on designing Azure compute solutions, including virtual machines, app services, and containers. The second part of the exam covers Azure networking, storage, and security solutions. Candidates must have a strong understanding of Azure services and features, as well as a comprehensive understanding of cloud computing concepts.

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## Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q220-Q225):

### NEW QUESTION # 220

You need to design an Azure policy that will implement the following functionality:

- \* For new resources, assign tags and values that match the tags and values of the resource group to which the resources are deployed.
- \* For existing resources, identify whether the tags and values match the tags and values of the resource group that contains the resources.
- \* For any non-compliant resources, trigger auto-generated remediation tasks to create missing tags and values.

The solution must use the principle of least privilege.

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

NOTE: Each correct selection is worth one point.

Azure Policy effect to use:	Append EnforceOPAConstraint EnforceRegoPolicy Modify
Azure Active Directory (Azure AD) object and RBAC role to use for the remediation tasks:	A managed identity with the Contributor role A managed identity with the User Access Administrator role A service principal with the Contributor role A service principal with the User Access Administrator role

### Answer:

Explanation:

Azure Policy effect to use:	Append EnforceOPAConstraint EnforceRegoPolicy Modify
Azure Active Directory (Azure AD) object and RBAC role to use for the remediation tasks:	A managed identity with the Contributor role A managed identity with the User Access Administrator role A service principal with the Contributor role A service principal with the User Access Administrator role

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects>

<https://docs.microsoft.com/en-us/azure/governance/policy/how-to/remediate-resources>

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources>

<https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects#modify>

### NEW QUESTION # 221

You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute.

You plan to provision an Azure Storage account to host the files.

You need to ensure that the storage account meets the following requirements:

- \* Supports video files of up to 7 TB
- \* Provides the highest availability possible
- \* Ensures that storage is optimized for the large video files
- \* Ensures that files from the on-premises network are uploaded by using ExpressRoute

How should you configure the storage account? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area****Microsoft**

## Storage account type:

- Premium file shares
- Premium page blobs
- Standard general-purpose v2

## Data redundancy:

- Geo-redundant storage (GRS)
- Locally-redundant storage (LRS)
- Zone-redundant storage (ZRS)

These are the selections for Data redundancy

## Networking:

- Azure Route Server
- A private endpoint
- A service endpoint

**Answer:****Explanation:****Answer Area**

## Storage account type:

- Premium file shares
- Premium page blobs
- Standard general-purpose v2

## Data redundancy:

- Geo-redundant storage (GRS)
- Locally-redundant storage (LRS)
- Zone-redundant storage (ZRS)

These are the selections for Data redundancy

## Networking:

- Azure Route Server
- A private endpoint
- A service endpoint

**Explanation:****Answer Area****Microsoft**

## Storage account type: Premium file shares

## Data redundancy: Locally-redundant storage (LRS)

## Networking: Azure Route Server

**NEW QUESTION # 222****Hotspot Question**

You are designing a data analytics solution that will use Azure Synapse and Azure Data Lake Storage Gen2.

You need to recommend Azure Synapse pools to meet the following requirements:

- Ingest data from Data Lake Storage into hash-distributed tables.
- Implement query, and update data in Delta Lake.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Ingest data from Data Lake Storage into hash-distributed tables:

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Implement, query, and update data in Delta Lake:

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Answer:

Explanation:



Ingest data from Data Lake Storage into hash-distributed tables:

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Implement, query, and update data in Delta Lake:

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Explanation:

Box 1: A dedicated SQL pool

A dedicated SQL pool in Azure Synapse provides the ability to create hash-distributed tables, which help distribute data evenly across multiple nodes and improve query performance. This option is well-suited for ingesting data from Data Lake Storage into hash-distributed tables.

Box 2: A serverless Apache Spark pool

A serverless Apache Spark pool in Azure Synapse allows you to run Apache Spark jobs on-demand without having to manage the underlying infrastructure. This option is ideal for working with Delta Lake, as it provides native support for querying and updating data stored in Delta Lake format.

#### NEW QUESTION # 223

You have the resources shown in the following table.

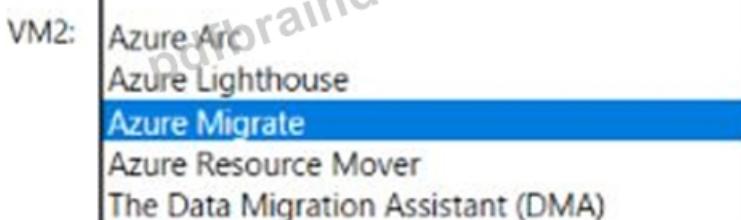
Name	Type	Resource group
VM1	Azure virtual machine	RG1 Microsoft
VM2	On-premises virtual machine	Not applicable

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.



**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 # 224**

You have an Azure subscription. The subscription contains 100 virtual machine that are Windows Server.

You need to recommend a solution that will provide monitoring and an audit trail of the following modifications:

- \* Changes to the Windows registry on the virtual machines
- \* Changes to the DNS settings of the virtual machines

The solution must minimize administrative effort.

What should you recommend using for each change? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Microsoft

Windows registry changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

DNS settings changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

**Answer:**

Explanation:

**Answer Area**

Windows registry changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

DNS settings changes:

- Azure Automation Change Tracking
- Azure Monitor Change Analysis
- Azure Monitor for VM Insights

## Explanation



## NEW QUESTION # 225

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