AZ-305^{Q&As}

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Designing Microsoft Azure Infrastructure Solutions

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QUESTION 1

You have an on-premises storage solution.

You need to migrate the solution to Azure. The solution must support Hadoop Distributed

File System (HDFS).

What should you use?

A. Azure Data Lake Storage Gen2

B. Azure NetApp Files

C. Azure Data Share

D. Azure Table storage

Correct Answer: A

QUESTION 2

HOTSPOT

Your on-premises datacenter contains a server named Server1 that runs Microsoft SQL Server 2022. Server1 contains a 30-TB database named DB1 that stores customer data. Server1 runs a custom application named App1 that verifies the

compliance of records in DB1. App1 must run on the same server as DB1.

You have an Azure subscription.

You need to migrate DB1 to Azure. The solution must minimize administrative effort.

To which service should you migrate DB1, and what should you use to perform the migration? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Migrate to:

▼
Azure SQL Database
Azure SQL Managed Instance
SQL Server on Azure Virtual Machines

By using:

▼
Azure Database Migration Service
Azure Migrate
The Azure SQL Migration extension for Azure Data Studio

Correct Answer:

Migrate to:

▼
Azure SQL Database
Azure SQL Managed Instance
SQL Server on Azure Virtual Machines

By using:

▼
Azure Database Migration Service
Azure Migrate
The Azure SQL Migration extension for Azure Data Studio

QUESTION 3

HOTSPOT

You are designing a cost-optimized solution that uses Azure Batch to run two types of jobs on Linux nodes. The first job type will consist of short-running tasks for a development environment. The second job type will consist of long-running

Message Passing Interface (MPI) applications for a production environment that requires timely job completion.

You need to recommend the pool type and node type for each job type. The solution must minimize compute charges and leverage Azure Hybrid Benefit whenever possible.

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

NOTE: Each correct selection is worth one point.
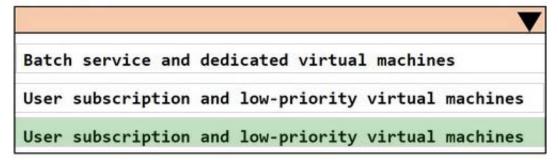
Hot Area:

First job:

▼
Batch service and dedicated virtual machines
User subscription and low-priority virtual machines
User subscription and low-priority virtual machines

Second job:

▼
Batch service and dedicated virtual machines
User subscription and low-priority virtual machines
User subscription and low-priority virtual machines

Correct Answer:

First job:

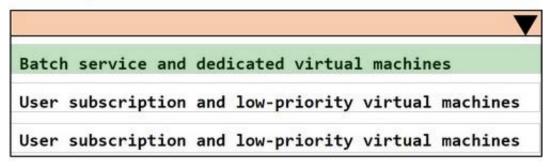| |
|---|
| ▼ |
| Batch service and dedicated virtual machines |
| User subscription and low-priority virtual machines |
| User subscription and low-priority virtual machines |

Second job:

▼
Batch service and dedicated virtual machines
User subscription and low-priority virtual machines
User subscription and low-priority virtual machines

QUESTION 4

Your company develops Azure applications.

You need to recommend a solution for the deployment of Azure subscriptions. The solution must meet the following requirements:

What should you include in the recommendation?

A. Provision resource groups.

B. Support deployments across all Azure regions.

C. Create custom role-based access control (RBAC) roles.

D. Provide consistent virtual machine and virtual network configurations.

Correct Answer: D

Resource groups: You can scope your deployment to a resource group. You use an Azure Resource Manager template (ARM template) for the deployment. Regions: If you have a template spec in one region and want to move it to new

region, you can export the template spec and redeploy it. RBAC: Azure role- based access control (Azure RBAC) is the authorization system you use to manage access to Azure resources. To grant access, you assign roles to users, groups,

service principals, or managed identities at a particular scope. In addition to using Azure PowerShell or the Azure CLI, you can assign roles using Azure Resource Manager templates. Templates can be helpful if you need to deploy resources

consistently and repeatedly.

You can setup Virtual machines and virtual network configurations in an Azure Resource Manager template.

Reference:

https://docs.microsoft.com/en-us/azure/governance/blueprints/overview

https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/microsoft-resources-move-regions

https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-template

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/template-description

QUESTION 5

You have an Azure subscription.

You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

1.

Only allow the creation of the virtual machines in specific regions.

2.

Only allow the creation of specific sizes of virtual machines. What should you include in the recommendation?

A. Conditional Access policies

B. role-based access control (RBAC)

C. Azure Resource Manager (ARM) templates

D. Azure Policy

Correct Answer: D

https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/manage/azure-server-management/common-policies#restrict-resource-regions

Regulatory and policy compliance often depends on control of the physical location where resources are deployed. You can use a built-in policy to allow users to create resources only in certain allowed Azure regions.

https://learn.microsoft.com/en-us/azure/virtual-machines/policy-reference

Allowed virtual machine size SKUs

This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy.

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