



DP-200^{Q&As}

Implementing an Azure Data Solution

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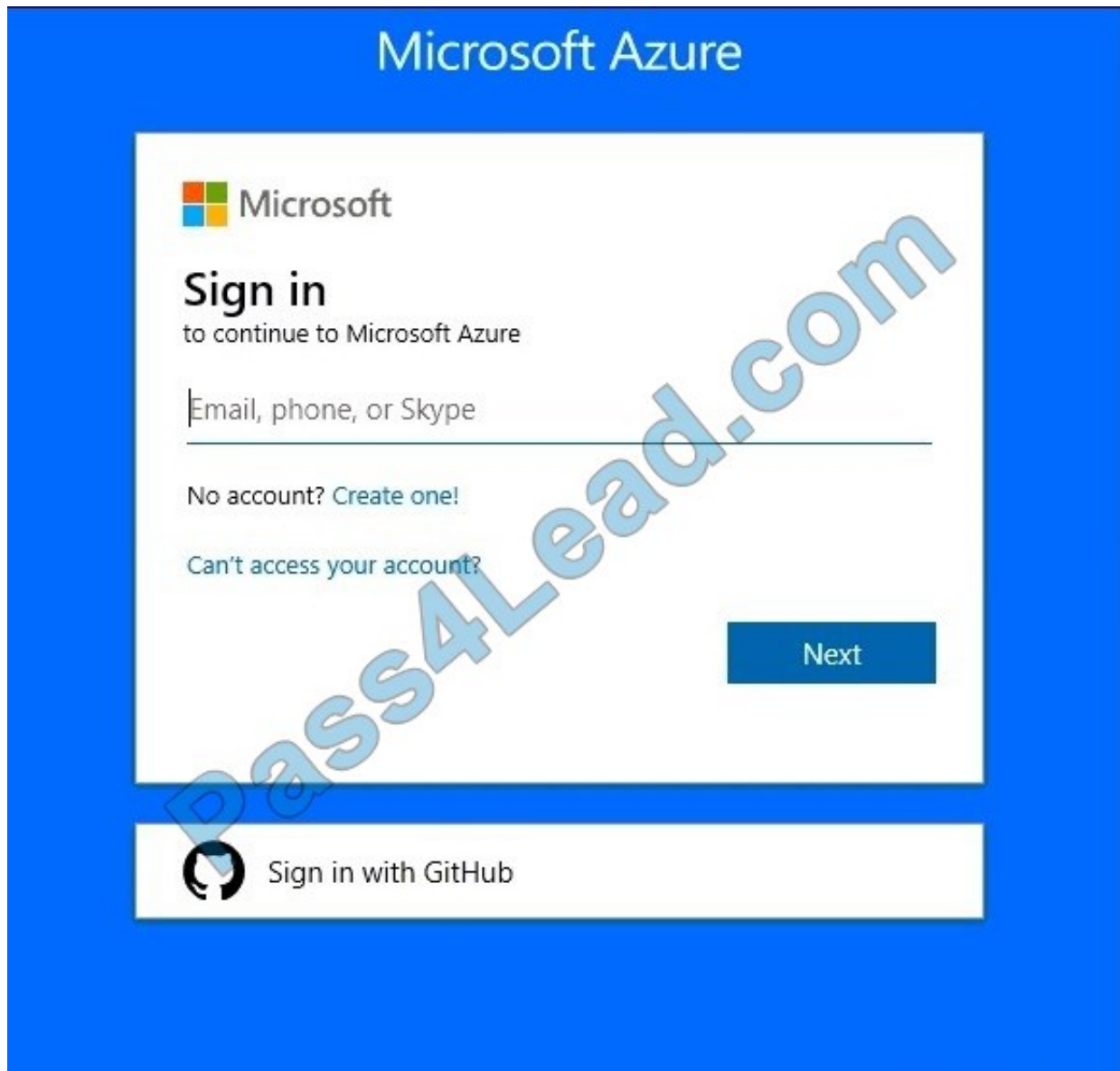




QUESTION 1

SIMULATION Use the following login credentials as needed: Azure Username: xxxxx

Azure Password: xxxxx The following information is for technical support purposes only: Lab Instance: 10543936 You need to ensure that only the resources on a virtual network named VNET1 can access an Azure Storage account named storage10543936.



To complete this task, sign in to the Azure portal.

Correct Answer: See the below.

You can use Private Endpoints for your Azure Storage accounts to allow clients on a virtual network (VNet) to securely access data over a Private Link. Create your Private Endpoint

1.



On the upper-left side of the screen in the Azure portal, Storage > Storage account, and select your storage account storage10543936

2.

Select Networking.

3.

Select Add Private Endpoint.

4.

In Create Private Endpoint, enter or select this information: Virtual network: Select VNET1 from the resource group.

5.

Select OK.

6.

Select Review + create. You'll be taken to the Review + create page where Azure validates your configuration.

Reference: <https://docs.microsoft.com/en-us/azure/private-link/create-private-endpoint-storage-portal>

QUESTION 2

On which data store you configure TDE to meet the technical requirements?

A. Cosmos DB

B. SQL Data Warehouse

C. SQL Database

D. <https://www.certbus.com/DP-200.html>

Correct Answer: B

Scenario: Transparent data encryption (TDE) must be enabled on all data stores, whenever possible. The datacentre for Mechanical Workflow must be moved to Azure SQL data Warehouse.

Incorrect Answers:

A: Cosmos DB does not support TDE.

QUESTION 3

You have an Azure subscription the contains the resources shown in the following table:



Name	Type
cosmosdb1	Azure Cosmos DB account
synapsedb1	Azure Synapse Analytics dedicated SQL pool
storageaccount1	Azure Storage account
storageaccount2	Azure Data Lake Storage account Gen2

All the resources have the default encryption settings.

You need to ensure that all the data stored in the resources is encrypted at rest.

What should you do?

- A. Enable Azure Storage encryption for storageaccount1.
- B. Enable Transparent Data Encryption (TDE) for synapsedb1.
- C. Enable Azure Storage encryption for storageaccount2.
- D. Enable encryption at rest for cosmosdb1.

Correct Answer: B

Incorrect answers:

A, C: Azure Disks, and data in Azure Storage accounts are automatically encrypted at rest by default

D: All user data stored in Azure Cosmos DB is encrypted at rest by default

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/transparent-data-encryption-byok-overview>
<https://docs.microsoft.com/en-us/azure/synapse-analytics/security/workspaces-encryption> <https://docs.microsoft.com/en-us/azure/cosmos-db/database-encryption-at-rest>

QUESTION 4

Your company manages on-premises Microsoft SQL Server pipelines by using a custom solution.

The data engineering team must implement a process to pull data from SQL Server and migrate it to Azure Blob storage. The process must orchestrate and manage the data lifecycle.

You need to configure Azure Data Factory to connect to the on-premises SQL Server database.

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:



Answer Area

Actions

- Create an Azure Data Factory resource.
- Configure a self-hosted integration runtime.
- Create a virtual private network (VPN) connection from on-premises to Microsoft Azure.
- Create a database master key on SQL Server.
- Backup the database and send it Azure Blob storage.
- Configure the on-premises SQL Server instance with an integration runtime.

Answer Area

Correct Answer:

Answer Area

Actions

-
-
-
- Create a database master key on SQL Server.
 - Backup the database and send it Azure Blob storage.
 - Configure the on-premises SQL Server instance with an integration runtime.

Answer Area

Create a virtual private network (VPN) connection from on-premises to Microsoft Azure.

Create an Azure Data Factory resource.

Configure a self-hosted integration runtime.

Step 1: Create a virtual private network (VPN) connection from on-premises to Microsoft Azure.

You can also use IPSec VPN or Azure ExpressRoute to further secure the communication channel between your on-premises network and Azure.

Azure Virtual Network is a logical representation of your network in the cloud. You can connect an on-premises network to your virtual network by setting up IPSec VPN (site-to-site) or ExpressRoute (private peering).

Step 2: Create an Azure Data Factory resource.

Step 3: Configure a self-hosted integration runtime.



You create a self-hosted integration runtime and associate it with an on-premises machine with the SQL Server database. The self-hosted integration runtime is the component that copies data from the SQL Server database on your machine

to Azure Blob storage.

Note: A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network, and it can dispatch transform activities against compute resources in an on-premises network or an Azure virtual

network. The installation of a self-hosted integration runtime needs on an on-premises machine or a virtual machine (VM) inside a private network.

References:

<https://docs.microsoft.com/en-us/azure/data-factory/tutorial-hybrid-copy-powershell>

QUESTION 5

You plan to create an Azure Databricks workspace that has a tiered structure. The workspace will contain the following three workloads:

A workload for data engineers who will use Python and SQL

A workload for jobs that will run notebooks that use Python, Spark, Scala, and SQL

A workload that data scientists will use to perform ad hoc analysis in Scala and R

The enterprise architecture team at your company identifies the following standards for Databricks environments:

The data engineers must share a cluster.

The job cluster will be managed by using a request process whereby data scientists and data engineers provide packaged notebooks for deployment to the cluster.

All the data scientists must be assigned their own cluster that terminates automatically after 120 minutes of inactivity. Currently, there are three data scientists.

You need to create the Databrick clusters for the workloads.

Solution: You create a High Concurrency cluster for each data scientist, a High Concurrency cluster for the data engineers, and a Standard cluster for the jobs.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

No need for a High Concurrency cluster for each data scientist.

Standard clusters are recommended for a single user. Standard can run workloads developed in any language: Python, R, Scala, and SQL.



A high concurrency cluster is a managed cloud resource. The key benefits of high concurrency clusters are that they provide Apache Spark-native fine-grained sharing for maximum resource utilization and minimum query latencies.

References:

<https://docs.azuredatabricks.net/clusters/configure.html>

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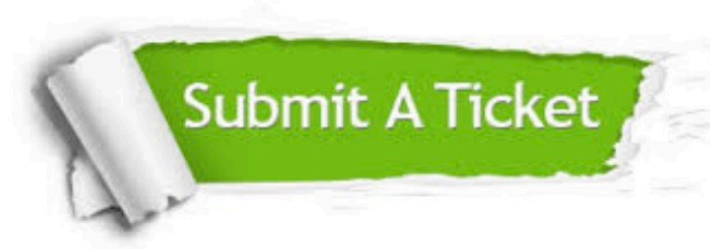
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