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QUESTION 12

HOTSPOT

You develop data engineering solutions for a company.

A project requires an in-memory batch data processing solution.

You need to provision an HDInsight cluster for batch processing of data on Microsoft Azure.

How should you complete the PowerShell segment? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

PowerShell script snippet for provisioning an HDInsight cluster:

```
-Name $clusterName -Context $defaultStorageContext
$objectConfig = New-Object "System.Collections.Generic.Dictionary<string, string>"
&$objectConfig.Add
```

Dropdown menu options for the first Add method call:

- New-AzureStorageContainer
- New-AzureRmHDInsightClusterConfig
- New-AzureRmHDInsightCluster

Dropdown menu options for the second Add method call:

- "spark"
- "hadoop"

PowerShell script snippet for provisioning an HDInsight cluster:

```
(
New-AzureRmHDInsightCluster
New-AzureRmHDInsightClusterConfig
New-AzureStorageContainer
-ResourceGroupName $resourceGroupName
-ClusterName $clusterName
-Location $location
-ClusterSizeInNodes $clusterSizeInNodes
-ClusterType
```

Dropdown menu options for the ClusterType parameter:

- "spark"
- "hadoop"
- "HBase"
- "Storm"

```
-OSType $clusterOS
-Version $clusterVersion
-ComponentVersion $objectConfig
-HttpCredential $httpCredential
-DefaultStorageAccountName
"$defaultStorageAccountName.blob.core.windows.net"
-DefaultStorageAccountKey $defaultStorageAccountKey
-DefaultStorageContainer $clusterName
-SshCredential $sshCredentials
```

Correct Answer:

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```
New-AzureStorageContainer
New-AzureRmHDInsightClusterConfig
New-AzureRmHDInsightCluster

-Name $clusterName -Context $defaultStorageContext
$objectConfig = New-Object "System.Collections.Generic.Dictionary" '2[System.String,System.String]'
&$objectConfig.Add "spark", "2.3"

(
New-AzureRmHDInsightCluster
New-AzureRmHDInsightClusterConfig
New-AzureStorageContainer

-ResourceGroupName $resourceGroupName
-ClusterName $clusterName
-Location $location
-ClusterSizeInNodes $clusterSizeInNodes
-ClusterType "spark"
-OSType $clusterOS
-Version $clusterVersion
-ComponentVersion $objectConfig
-HttpCredential $httpCredential
-DefaultStorageAccountName "$defaultStorageAccountName.blob.core.windows.net"
-DefaultStorageAccountKey $defaultStorageAccountKey
-DefaultStorageContainer $clusterName
-SshCredential $sshCredentials
```

QUESTION 13

HOTSPOT

You are designing a new Lambda architecture on Microsoft Azure.

The real-time processing layer must meet the following requirements:

Ingestion:

- Receive millions of events per second
- Act as a fully managed Platform-as-a-Service (PaaS) solution
- Integrate with Azure Functions

Stream processing:

- Process on a per-job basis
- Provide seamless connectivity with Azure services
- Use a SQL-based query language

Analytical data store:

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- Act as a managed service
- Use a document store
- Provide data encryption at rest

You need to identify the correct technologies to build the Lambda architecture using minimal effort. Which

technologies should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Architecture requirement	Answer Area					
Ingestion	<table><tr><td>HDInsight Kafka</td><td rowspan="4">V</td></tr><tr><td>Azure Event Hubs</td></tr><tr><td>HDInsight Storm</td></tr><tr><td>HDInsight Spark</td></tr></table>	HDInsight Kafka	V	Azure Event Hubs	HDInsight Storm	HDInsight Spark
HDInsight Kafka	V					
Azure Event Hubs						
HDInsight Storm						
HDInsight Spark						
Stream Processing	<table><tr><td>Azure Stream Analytics</td><td rowspan="4">V</td></tr><tr><td>HDInsight with Spark Streaming</td></tr><tr><td>Azure Cosmos DB Change Feed</td></tr><tr><td>Azure Analysis Services</td></tr></table>	Azure Stream Analytics	V	HDInsight with Spark Streaming	Azure Cosmos DB Change Feed	Azure Analysis Services
Azure Stream Analytics	V					
HDInsight with Spark Streaming						
Azure Cosmos DB Change Feed						
Azure Analysis Services						
Analytical Data Store	<table><tr><td>Hive LLAP on HDInsight</td><td rowspan="4">V</td></tr><tr><td>Azure Analysis Services</td></tr><tr><td>Azure Cosmos DB</td></tr><tr><td>SQL Data Warehouse</td></tr></table>	Hive LLAP on HDInsight	V	Azure Analysis Services	Azure Cosmos DB	SQL Data Warehouse
Hive LLAP on HDInsight	V					
Azure Analysis Services						
Azure Cosmos DB						
SQL Data Warehouse						

Correct Answer:

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Architecture requirement

Answer Area

Ingestion

HDInsight Kafka	V
Azure Event Hubs	
HDInsight Storm	
HDInsight Spark	

Stream Processing

Azure Stream Analytics	V
HDInsight with Spark Streaming	
Azure Cosmos DB Change Feed	
Azure Analysis Services	

Analytical Data Store

Hive LLAP on HDInsight	V
Azure Analysis Services	
Azure Cosmos DB	
SQL Data Warehouse	

QUESTION 14

You manage a Microsoft Azure SQL Data Warehouse Gen 2.

Users report slow performance when they run commonly used queries. Users do not report performance changes for infrequently used queries.

You need to monitor resource utilization to determine the source of the performance issues. Which metric should you monitor?

- A. Cache used percentage
- B. Local tempdb percentage
- C. WU percentage
- D. CPU percentage

Correct Answer: A

QUESTION 15

DRAG DROP

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.

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Actions	Answer Area
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.	

Correct Answer:

Actions	Answer Area
Create an Azure Data Factory resource.	Create a virtual private network (VPN)connection from on-premises to Microsoft Azure.
Configure a self-hosted integration runtime.	Create an Azure Data Factory resource.
Create a virtual private network (VPN)connection from on-premises to Microsoft Azure.	Configure a self-hosted integration runtime.
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.	

QUESTION 16

DRAG DROP

You develop data engineering solutions for a company.

A project requires analysis of real-time Twitter feeds. Posts that contain specific keywords must be stored and processed on Microsoft Azure and then displayed by using Microsoft Power BI. You need to implement the solution.

Which five 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.