



Microsoft

Exam Questions 70-473

Designing and Implementing Cloud Data Platform Solutions

NEW QUESTION 1

You are evaluating whether to replace CRM-B with an Azure virtual machine. You need to identify the required virtual machine service tier to replace CRM-. The solution must meet the following requirements: Which virtual machine service tier should you identify?

- A. Standard DS3
- B. Standard A6
- C. Standard GS2
- D. Standard D3

Answer: A

Explanation: References:
<https://azure.microsoft.com/en-gb/documentation/articles/virtual-machines-windows-sizes/>

NEW QUESTION 2

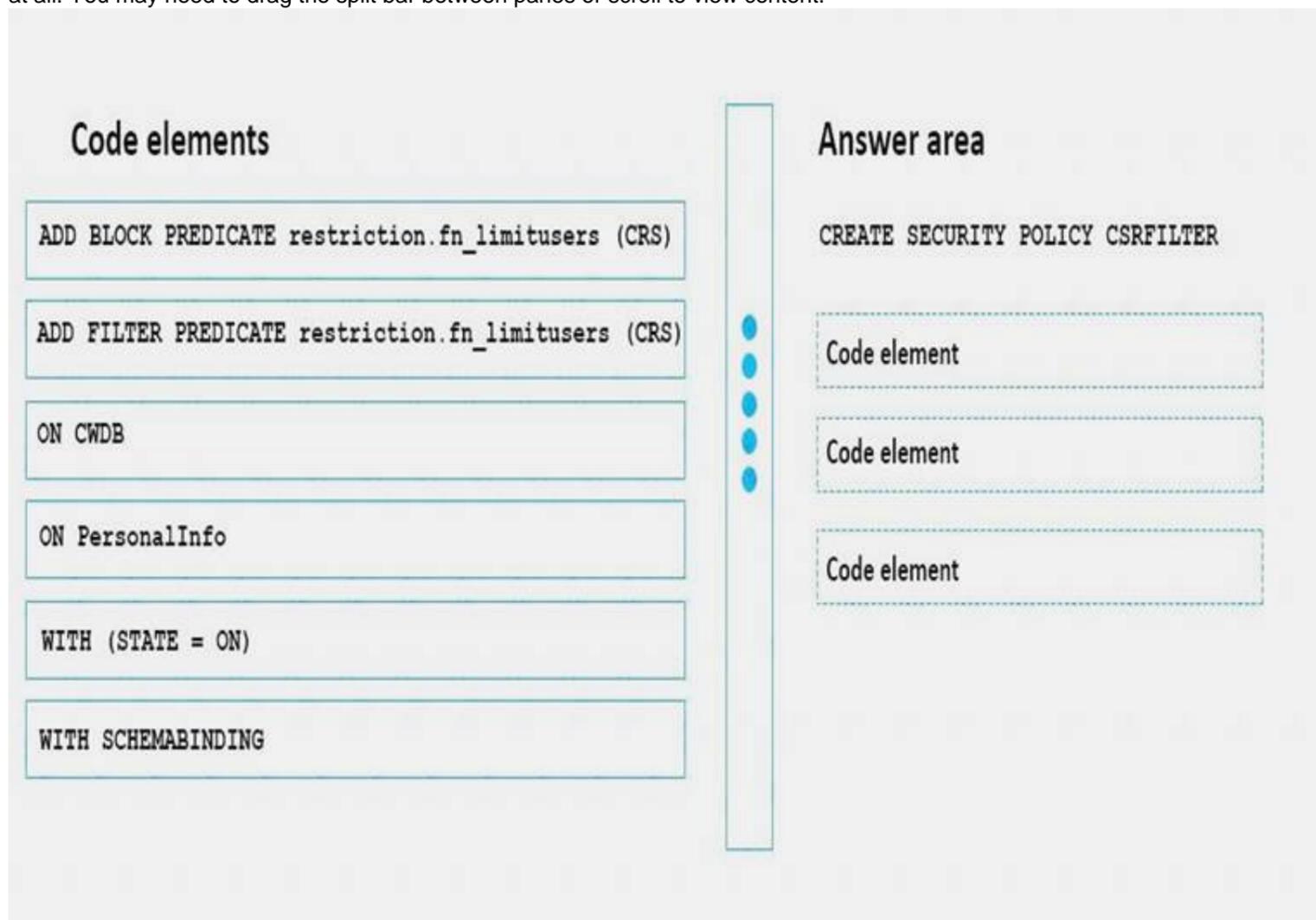
You are evaluating moving the data from WebData1 to an Azure SQL database. You need to recommend a solution to generate the consolidated report for billing. The solution must meet the business requirements. What should you include in the recommendation?

- A. SQL Server Integration Services (SSIS)
- B. SQL Server Analysis Services (SSAS)
- C. an elastic database job
- D. an elastic query

Answer: D

NEW QUESTION 3

You plan to implement row-level security for the CWDB database. You create the fn_limitusers function under the restriction schema. You need to create the policy. How should you complete the policy? To answer, drag the appropriate elements to the correct locations. Each element 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.



Answer:

Explanation: References:
<https://msdn.microsoft.com/en-us/library/dn765131.aspx>

NEW QUESTION 4

You are evaluating the migration of the databases from Host1 and WebData1 to Azure. You need to recommend the most cost-effective solution for storing the database in Azure. The solution must meet the business requirements.

In the table below, recommend the most cost-effective storage solution for Host1 and WebData1. NOTE: Make only one selection in each column.

Answer Area			
Solutions	Host1	WebData1	
SQL Server 2014 Standard edition installed on an Azure virtual machine	<input type="radio"/>	<input type="radio"/>	
SQL Server 2014 Enterprise edition installed on an Azure virtual machine	<input type="radio"/>	<input type="radio"/>	
a single Azure SQL database on the Basic service tier	<input type="radio"/>	<input type="radio"/>	
an Azure SQL Database elastic database pool on the Basic service tier	<input type="radio"/>	<input type="radio"/>	
a single Azure SQL database on the Standard service tier	<input type="radio"/>	<input type="radio"/>	
an Azure SQL Database elastic database pool on the Standard service tier	<input type="radio"/>	<input type="radio"/>	

Answer:

Explanation:

Answer Area			
Solutions	Host1	WebData1	
SQL Server 2014 Standard edition installed on an Azure virtual machine	<input type="radio"/>	<input type="radio"/>	
SQL Server 2014 Enterprise edition installed on an Azure virtual machine	<input checked="" type="radio"/>	<input type="radio"/>	
a single Azure SQL database on the Basic service tier	<input type="radio"/>	<input type="radio"/>	
an Azure SQL Database elastic database pool on the Basic service tier	<input type="radio"/>	<input type="radio"/>	
a single Azure SQL database on the Standard service tier	<input type="radio"/>	<input type="radio"/>	
an Azure SQL Database elastic database pool on the Standard service tier	<input type="radio"/>	<input checked="" type="radio"/>	

NEW QUESTION 5

You need to implement the monitoring solution for the Listings 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.

Actions

Answer Area

Use the **sys.fn_get_audit_file()** function to review and report on the trapped events.

Execute the following statement.

```
CREATE EVENT SESSION
ListingsDBChange ON DATABASE
ADD EVENT
sqlserver.object_altered ( SET
collect_database_name = (1)
ACTION ( sqlserver.sql_text
,sqlserver.nt_username
,sqlserver.server_principal_name
,sqlserver.client_hostname )
WHERE object_type =
'DATABASE'
AND
sqlserver.database_name =
'Listings'
)
ADD TARGET package0.event_file
( SET filename =
N'C:\Database\XE>ListingsDBChange
WITH (STARTUP_STATE = ON);
```



Execute the following statement.

```
ALTER EVENT SESSION
ListingsDBChange
ON SERVER
STATE = START;
GO
```

Use the **sys.fn_xe_file_target_read_file()** function to review and report on the trapped events.

Execute the following statement.

```
CREATE EVENT SESSION
ListingsDBChange ON SERVER
ADD EVENT
sqlserver.object_altered ( SET
collect_database_name = (1)
ACTION ( sqlserver.sql_text
,sqlserver.nt_username
,sqlserver.server_principal_name
,sqlserver.client_hostname )
WHERE object_type =
'DATABASE'
AND
sqlserver.database_name =
'Listings'
)
ADD TARGET package0.event_file
( SET filename =
N'C:\Database\XE>ListingsDBChange
WITH (STARTUP_STATE = ON);
```

Answer:

Explanation:

Actions

Use the **sys.fn_get_audit_file()** function to review and report on the trapped events.

Execute the following statement.

```
CREATE EVENT SESSION
ListingsDBChange ON DATABASE
ADD EVENT
sqlserver.object_altered ( SET
collect_database_name = (1)
ACTION ( sqlserver.sql_text
,sqlserver.nt_username
,sqlserver.server_principal_name
,sqlserver.client_hostname )
WHERE object_type =
'DATABASE'
AND
sqlserver.database_name =
'Listings'
)
ADD TARGET package0.event_file
( SET filename =
N'C:\Database\XE\ListingsDBChange
WITH (STARTUP_STATE = ON);
```

Execute the following statement.

```
ALTER EVENT SESSION
ListingsDBChange
ON SERVER
STATE = START;
GO
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Use the **sys.fn_xe_file_target_read_file()** function to review and report on the trapped events.

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,sqlserver.server_principal_name
,sqlserver.client_hostname )
WHERE object_type =
'DATABASE'
AND
sqlserver.database_name =
'Listings'
)
ADD TARGET package0.event_file
( SET filename =
N'C:\Database\XE\ListingsDBChange
WITH (STARTUP_STATE = ON);
```

```
ADD EVENT
sqlserver.object_altered ( SET
collect_database_name = (1)
ACTION ( sqlserver.sql_text
,sqlserver.nt_username
,sqlserver.server_principal_name
,sqlserver.client_hostname )
WHERE object_type =
```

Execute the following statement.

```
ALTER EVENT SESSION
ListingsDBChange
ON SERVER
STATE = START;
GO
```

Use the **sys.fn_xe_file_target_read_file()** function to review and report on the trapped events.



NEW QUESTION 6

Which three components are required to meet the encryption requirements for the ListTest database? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. a Column Master Key
- B. a certificate
- C. an Always Encrypted enabled driver
- D. a Column Encryption Key
- E. a service master key
- F. a database master key

Answer: ACD

Explanation: References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/create-and-store-column-masterke>

NEW QUESTION 7

You need to implement monitoring for the ListTest database.

Which three statements should you use in sequence? To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.

Statements	Answer Area
<pre>ALTER EVENT SESSION XE_azuresqlldbListing ON DATABASE STATE=START; GO</pre>	
<pre>CREATE EVENT SESSION XE_azuresqlldbListing ON DATABASE ADD EVENT sqlserver.sql_statement_starting (ACTION(sqlserver.sql_text) WHERE statement LIKE '%UPDATE Client%') ADD TARGET package0.ring_buffer (SET max_memory = 500 --Units of KB); GO</pre>	
<pre>SELECT * FROM sys.fn_xe_file_target_read_file ('XE_azuresqlldbListing',NULL, NULL, NULL)</pre>	
<pre>SELECT CAST ([target_data] AS XML) AS target_data FROM sys.dm_xe_sessions AS xt INNER JOIN sys.dm_xe_sessions AS xs ON xs.address = xt.event_session_address WHERE xs.name = N'XE_azuresqlldbListing' AND xt.target_name = N'ring_buffer' ;</pre>	

Answer:

Explanation:

Statements	Answer Area
<pre>ALTER EVENT SESSION XE_azuresqlldbListing ON DATABASE STATE=START; GO</pre>	<pre>CREATE EVENT SESSION XE_azuresqlldbListing ON DATABASE ADD EVENT sqlserver.sql_statement_starting (ACTION(sqlserver.sql_text) WHERE statement LIKE '%UPDATE Client%') ADD TARGET package0.ring_buffer (SET max_memory = 500 --Units of KB); GO</pre>
<pre>CREATE EVENT SESSION XE_azuresqlldbListing ON DATABASE ADD EVENT sqlserver.sql_statement_starting (ACTION(sqlserver.sql_text) WHERE statement LIKE '%UPDATE Client%') ADD TARGET package0.ring_buffer (SET max_memory = 500 --Units of KB); GO</pre>	
<pre>SELECT * FROM sys.fn_xe_file_target_read_file ('XE_azuresqlldbListing',NULL, NULL, NULL)</pre>	<pre>ALTER EVENT SESSION XE_azuresqlldbListing ON DATABASE STATE=START; GO</pre>
<pre>SELECT CAST ([target_data] AS XML) AS target_data FROM sys.dm_xe_sessions AS xt INNER JOIN sys.dm_xe_sessions AS xs ON xs.address = xt.event_session_address WHERE xs.name = N'XE_azuresqlldbListing' AND xt.target_name = N'ring_buffer' ;</pre>	<pre>SELECT CAST ([target_data] AS XML) AS target_data FROM sys.dm_xe_sessions AS xt INNER JOIN sys.dm_xe_sessions AS xs ON xs.address = xt.event_session_address WHERE xs.name = N'XE_azuresqlldbListing' AND xt.target_name = N'ring_buffer' ;</pre>

NEW QUESTION 8

You need to recommend a solution to migrate the Listings database to the cloud. What should you recommend?

- A. Stage the Listings database on an Azure virtual machine prior to the outage
- B. During the outage, perform a data import from the main office by using SQL Server Management Studio.
- C. Enable mirroring between the main office and the Azure virtual machine
- D. During the planned outage, change the mirroring roles on the Azure virtual machine to become the primary server, and then break the mirror.
- E. Run a full backup during the outage and restore the backup to the Azure virtual machine.
- F. Implement merge replication between the main office and the Azure virtual machine.

Answer: B

Explanation: <https://blogs.msdn.microsoft.com/buckwoody/2013/01/08/microsoft-windows-azure-disaster-recovery-options-f>

NEW QUESTION 9

You establish a site-to-site VPN to Microsoft Azure.

You need to implement a high-availability solution for the data warehouse. The solution must meet the business goals and the technical requirements. Which two actions should you perform? Each correct answer presents part of the solution.

- A. Configure the databases to be in Full recovery model.
- B. Create an AlwaysOn availability group between SQL03 and SQL04.
- C. Implement iSCSI storage.
- D. Migrate SQL03 to an Azure virtual machine and configure an AlwaysOn availability group

Answer: AB

NEW QUESTION 10

You need to implement a storage architecture for the Azure virtual machines that will host the OLTP database. The solution must meet the business goals and the technical requirements.

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.

Actions

- Create a single database file.
- Assign a drive letter to each drive.
- Use Storage Spaces to create a striped pool.
- Create Azure virtual machines that have eight data drives.
- Create tables in the file group.

Answer Area

Answer:

Explanation:

Actions

- Create a single database file.
- Assign a drive letter to each drive.
- Use Storage Spaces to create a striped pool.
- Create Azure virtual machines that have eight data drives.
- Create tables in the file group.

Answer Area

Create Azure virtual machines that have eight data drives.

Use Storage Spaces to create a striped pool.

Create a single database file.

NEW QUESTION 10

Users at Relecloud report slow performance when viewing reports from AzD801. You need to identify the cause of the performance issue as quickly as possible. Which dynamic management view and performance monitor counter should you use? To answer, select the appropriate options in the answers area.

NOTE: Each correct selection is worth one point.

Dynamic management view:

Sys.dm_io_cluster_shared_drives

Sys.dm_io_virtual_file_stats

Sys.dm_os_schedulers

Performance Monitor counter:

Page Life Expectancy

Page Reads/sec

Processor Queue Length

Answer:

Explanation: Box 1: Sys.dm_io_virtual_file_stats

Sys.dm_io_virtual_file_stats returns I/O statistics for data and log files. Box 2:

Page reads/sec indicates the number of physical database page reads that are issued per second. This statistic displays the total number of physical page reads across all databases. Because physical I/O is expensive, you may be able to minimize the cost, either by using a larger data cache, intelligent indexes, and more efficient queries, or by changing the database design.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-io-virtual> <https://docs.microsoft.com/en-us/sql/relational-databases/performance-monitor/monitor-cpu-usage?view=sql-ser>

NEW QUESTION 13

You need to recommend a solution to meet the network requirement. What should you recommend?

- A. Implement forced tunneling.
- B. Create a network security group (NSG) rule.
- C. Create an Azure virtual network gateway.
- D. Implement split tunneling.

Answer: C

Explanation: Application Gateway operates as an application delivery controller and offers SSL termination, cookie-based session affinity, round-robin load distribution, content-based routing, ability to host multiple websites and security enhancements.

Scenario: Networking requirements

All Internet traffic initiated from the servers in Azure must be routed through the local network firewalls and content filters.

Reference: <https://docs.microsoft.com/en-us/azure/security/security-network-overview>

NEW QUESTION 16

You need to provision the database for DB2 in Azure.

How should you provision the database? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Service:

- An Azure virtual machine that has MySQL installed
- Azure Cosmos DB
- Azure Data Lake
- Azure Database for MySQL
- Azure Database for PostgreSQL
- Azure SQL Database

Tier:

- Basic
- Premium
- Standard

Answer:

Explanation: Box 1: Azure Database for MySQL

Azure Database for MySQL provides fully managed, enterprise-ready community MySQL database as a service.

Box 2:

	Basic	General Purpose	Memory Optimized
Storage type	Azure Standard Storage	Azure Premium Storage	Azure Premium Storage
Storage size	5 GB to 1 TB	5 GB to 4 TB	5 GB to 4 TB
Storage increment size	1 GB	1 GB	1 GB
IOPS	Variable	3 IOPS/GB Min 100 IOPS Max 6000 IOPS	3 IOPS/GB Min 100 IOPS Max 6000 IOPS

Incorrect Answers:

Not Azure Database for MySQL

You can create an Azure Database for MySQL server in one of three different pricing tiers: Basic, General Purpose, and Memory Optimized.

Scenario: App2 is developed by using third-party open source code that is updated frequently. The database for App2 is named DB2. App2 only supports MySQL.

None of the developers at Tailspin Toys are skilled in using MySQL. DB2 is supported by a team of external developers.

DB2 is 20 GB and is expected to reach 50 GB during the next five years. DB2 has a storage performance requirement of 200 IOPs.

DB2 must be highly available. Reference:

<https://docs.microsoft.com/en-us/azure/mysql/concepts-pricing-tiers> <https://azure.microsoft.com/en-us/services/mysql/>

NEW QUESTION 20

You need to identify the appropriate data architecture for App1. The solution must support the planned changes.

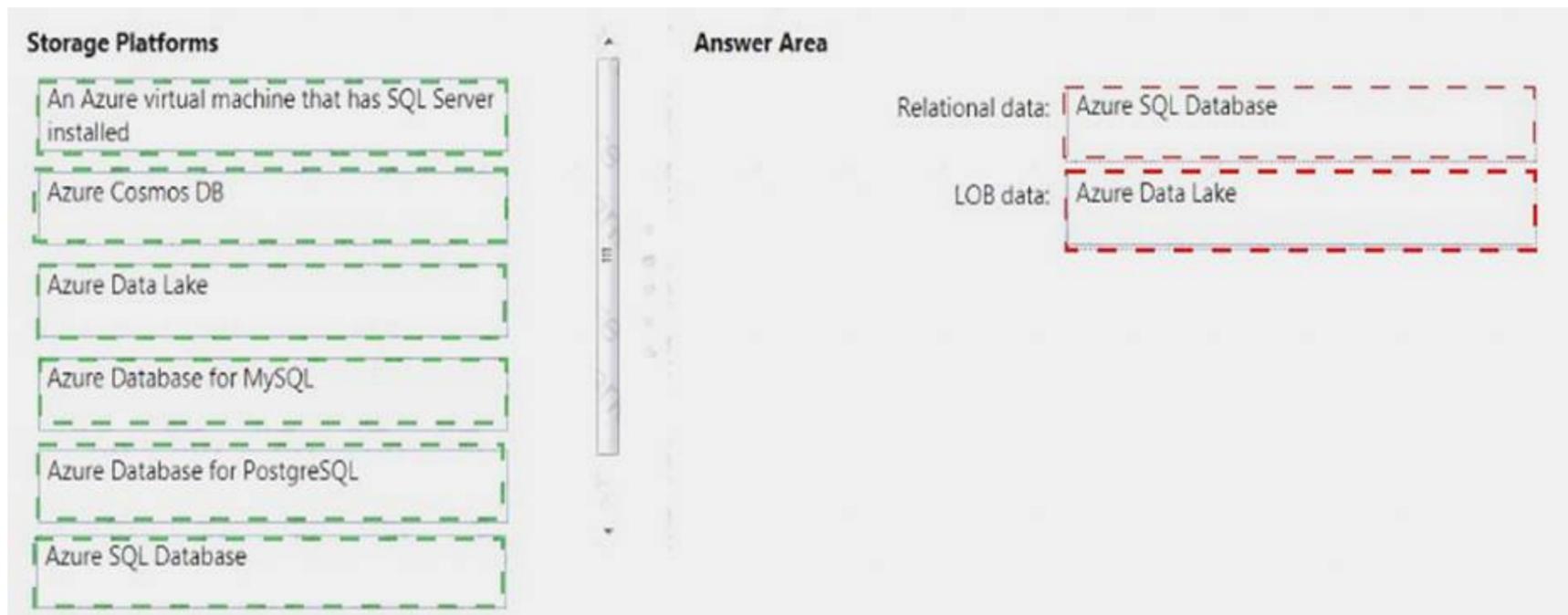
Which storage platforms should you identify for App1? To answer, drag the appropriate storage platforms to the correct data types. Each storage platform may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point

The screenshot shows an exam question interface. On the left, under 'Storage Platforms', there is a list of options: 'An Azure virtual machine that has SQL Server installed', 'Azure Cosmos DB', 'Azure Data Lake', 'Azure Database for MySQL', 'Azure Database for PostgreSQL', and 'Azure SQL Database'. On the right, under 'Answer Area', there are two categories: 'Relational data:' and 'LOB data:'. Each category has a box labeled 'Storage platform' where a user can drag an option from the left list.

Answer:

Explanation:



NEW QUESTION 22

You need to implement a solution to meet the technical requirements for the encryption of the data in Appl. Which two features should you enable? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point

- A. Storage Account Encryption
- B. Azure Key Vault
- C. Dynamic Data Masking
- D. Transparent Data Encryption (TDE)

Answer: BD

Explanation: An application named App1 uses Microsoft SQL Server as a back-end database. The customer-sensitive data stored in Azure must be encrypted when at rest. References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/extensible-key-management-using-> <https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?view=>

Topic 6, Mixed Questions

NEW QUESTION 23

You have a Microsoft Azure virtual machine that hosts a Microsoft SQL Server database instance. Users report that during peak workloads, the database is slower than expected.

You query sys.dm_os_waiting_tasks and you discover that there are a high number of PAGEIOLATCH waits. You need to receive an alert if the storage on the Azure virtual machine is throttled.

What should you use?

- A. a SQL Server Agent alert
- B. Microsoft System Center alerts for \Device\RaidPort0 in the system event log
- C. Performance Monitor alerts
- D. Azure portal alerts on the storage pool
- E. Azure portal alerts on the virtual machine

Answer: CE

Explanation: References:

<https://blogs.msdn.microsoft.com/mast/2017/09/12/how-to-monitor-and-alert-potential-disk-and-vm-level-io-thr>

NEW QUESTION 25

You have a Microsoft Azure SQL database that is used for reporting.

You discover that some reports complete more quickly than other reports, even though the reports retrieve approximately the same amount of data and use queries that have the same table structure.

You need to reduce the amount of time it takes to complete the reports.

What should you use?

- A. Index Tuning Wizard
- B. Database Engine Tuning Advisor
- C. Azure Throughput Analyzer
- D. Azure SQL Database Index Advisor

Answer: D

NEW QUESTION 29

You have an on-premises Microsoft SQL Server 2014 database in an AlwaysOn availability group. You are planning a backup solution for the database. Backups will run on a secondary replica.

You need to create a backup procedure for the database. The solution must ensure that the backups are stored on-premises and in Microsoft Azure Blob storage. Which two actions should you perform? Each correct answer presents part of the solution.

- A. Run the BACKUP DATABASE statement and use the TO DISK clause.
- B. Run the CREATE DATABASE statement and use the AS COPY OF clause.
- C. Run the BACKUP DATABASE statement and use the TO URL clause.
- D. Run the BACKUP DATABASE statement and use the MIRROR clause.

Answer: C

Explanation: <https://msdn.microsoft.com/en-us/library/dn435916.aspx>

NEW QUESTION 34

You implement Microsoft Azure ExpressRoute.

You need to ensure that if the ExpressRoute connection is unavailable, you can manage the resources in Azure over a secure connection.

Which two actions should perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure virtual network.
- B. Enable a point-to-site VPN on the gateway.
- C. Install the Azure VPN client.
- D. Create a certificate.
- E. Create a private IP address.

Answer: DE

NEW QUESTION 39

You have a Microsoft Azure SQL database. You need to configure the database to issue an alert when DTU consumption reaches 80 percent.

What should you create?

- A. a SQL Serve Extended Events session
- B. an Azure Automation job
- C. a Query Performance Insight chart
- D. an alert rule in Azure

Answer: D

Explanation: References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-insights-alerts-portal>

NEW QUESTION 43

Your environment contains several Microsoft Azure SQL databases.

You need to execute Transact-SQL-based maintenance steps automatically against the databases. The execution must occur weekly.

What should you use?

- A. a SQL Server Agent job
- B. an Azure Scheduler job
- C. an Azure Data Factory pipeline
- D. an Elastic Database job

Answer: B

NEW QUESTION 48

You have a server named SQL1 that has Microsoft SQL Server 2016 installed. SQL1 contains a database named DB1.

You need to ensure that a user named User1 can query dynamic management views to monitor DB1. The solution must minimize the number of permissions assigned to User1.

You create a login for User1.

Which permission should you grant to User1?

- A. ALTER TRACE
- B. VIEW SERVER STATE
- C. VIEW DATABASE STATE
- D. VIEW ANY DATABASE

Answer: B

NEW QUESTION 51

You have Microsoft SQL Server installed on a Microsoft Azure virtual machine named VM1. VM1 is provisioned by using the classic deployment model and is on the Standard GS5 service tier.

The virtual machine is used for testing purposes only.

You need to minimize the costs associated with VM1 when the virtual machine is unused. Which command should you use?

- A. Update-AzureVM
- B. Stop-AzureVM
- C. Suspend-VM
- D. Stop-VM

Answer: B

Explanation:

References:

<https://msdn.microsoft.com/en-us/library/azure/dn495269.aspx>

NEW QUESTION 55

You have a Microsoft Azure virtual machine that has Microsoft SQL Server installed. The virtual machine contains five databases. You need to identify whether the performance of queries to the databases has degraded during the last two weeks. Which SQL Server feature should you use?

- A. server-side tracing
- B. Extended Events
- C. Query Store
- D. Policy-Based Management

Answer: B

NEW QUESTION 57

You have a Microsoft Azure virtual machine that has Microsoft SQL Server installed.

You need to increase the disk space available to store database files on the virtual machine.

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.

Actions		Answer Area
From the virtual machine, rebalance the storage pool.		
From the virtual machine, add a disk to the storage pool.		
From the Azure portal, enable managed disks.	>	↑
From the Azure portal, create a new storage container.	<	↓
From the virtual machine, create a new volume.		
From the Azure portal, add a new data disk to the virtual machine.		

Answer:

Explanation:

Actions		Answer Area
From the virtual machine, rebalance the storage pool.		From the Azure portal, add a new data disk to the virtual machine.
From the virtual machine, add a disk to the storage pool.		From the virtual machine, add a disk to the storage pool.
From the Azure portal, enable managed disks.		
From the Azure portal, create a new storage container.		From the virtual machine, rebalance the storage pool.
From the virtual machine, create a new volume.		
From the Azure portal, add a new data disk to the virtual machine.		

NEW QUESTION 59

You have four Microsoft Azure SQL databases. You need to configure cross-database queries.

Which four statements should you use in sequence? To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.

Statements

Answer Area

- CREATE EXTERNAL DATABASE
- CREATE MASTER KEY
- CREATE EXTERNAL TABLE
- CREATE EXTERNAL DATA SOURCE
- CREATE DATABASE SCOPED CREDENTIAL
- CREATE SHARD MAP



Answer:

Explanation: References:
<https://azure.microsoft.com/en-gb/documentation/articles/sql-database-elastic-query-overview/>

NEW QUESTION 60

You have a Microsoft SQL Server instance that is hosted on a Microsoft Azure virtual machine. You need to identify the most recent wait type for all of the currently running queries in the instance. What should you use?

- A. the sys.dm_exec_sessions view
- B. the sys.dm_exec_connections view
- C. the sys.dm_os_waiting_tasks view
- D. the sys.syscacheobjects view

Answer: C

NEW QUESTION 63

You need to create a Microsoft Azure Resource manager template. Which file format should you use?

- A. XML
- B. text
- C. JSON
- D. binary

Answer: C

NEW QUESTION 68

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen.

You have a Microsoft Azure Database for MySQL Server named SQLDB1. Four database administrators manage SQLDB1. You need to prevent any administrator from deleting the server that hosts SQLDB1. Solution: You create a delete lock on the server resource in Azure. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 72

Your environment contains several Microsoft Azure SQL databases. You need to prevent inbound connections from the Internet to the databases when CPU utilization exceeds 90 percent. Which two tasks should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create an Azure alert based on an event.
- B. Create an Azure Data Factory pipeline.
- C. Create an Azure metric alert.
- D. Create a SQL Server Agent job.
- E. Deploy an Azure logic app.

Answer: CE

NEW QUESTION 75

You plan to migrate an on-premises database to Microsoft Azure. The planned deployment will include an Always On Failover Cluster Instance of Microsoft SQL Server.

You need to implement a storage solution for the planned deployment. Which storage solution should you implement?

- A. Azure Table Storage
- B. Storage Spaces Direct
- C. Azure Blob storage
- D. SAN virtualization

Answer: B

Explanation: References:

<https://docs.microsoft.com/en-us/sql/sql-server/failover-clusters/windows/always-on-failover-cluster-instances-s>

NEW QUESTION 76

You have an Azure SQL Database elastic database pool that contains two databases named database1 and database2.

Users of database1 report poor performance during peak business hours. You discover that database2 consumes most of the available resources. You need to resolve the performance issue.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Change the value of the Max Degree Of Parallelism.
- B. Decrease the number of elastic database transaction units (eDTUs) for the pool.
- C. Increase the min value of the elastic database transaction units (eDTUs) for database2.
- D. Lower the max value of the elastic database transaction units (eDTUs) for database2.
- E. Increase the number of elastic database transaction units (eDTUs) for the pool.

Answer: DE

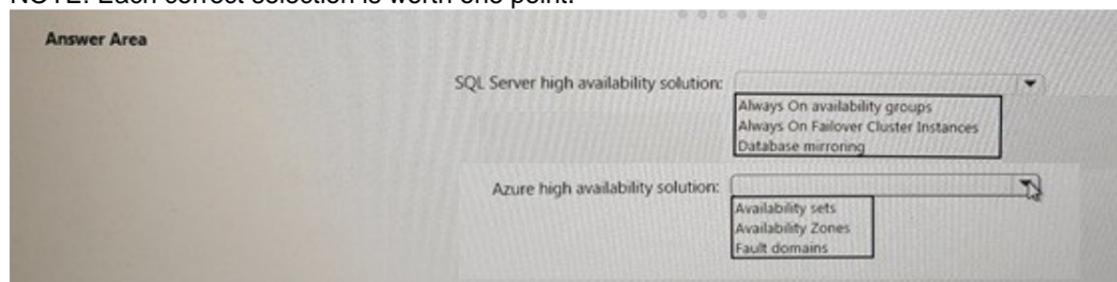
NEW QUESTION 80

You need to design a highly available Microsoft SQL Server environment in Microsoft Azure that meets the following requirements.

- * Prevents data loss if an Azure data center becomes unavailable
- * Fails over to another Azure region without causing data loss if an Azure region becomes unavailable

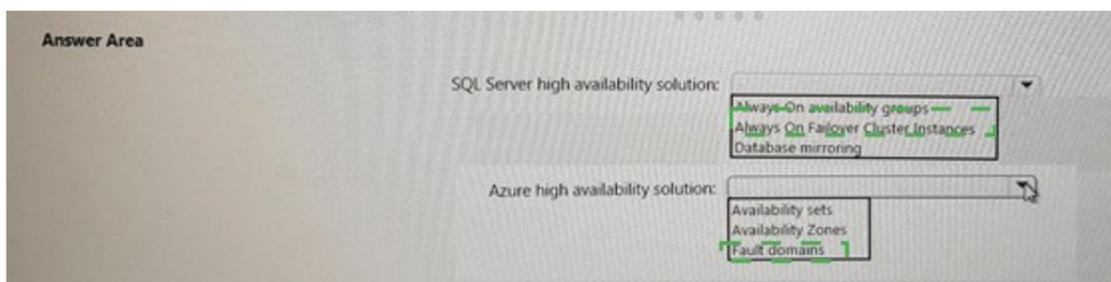
Which solution should you include in the environment? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION 81

You deploy a Microsoft SQL Server instance on a Microsoft Azure virtual machine by using a template. You plan to deploy a PHP-based app in an Azure web app. The web app will use a database on the virtual machine. The web app and the virtual machine will be on the same Azure virtual network.

You need to ensure that the web app can access the SQL Server database.

You need to ensure that the web app can access the SQL Server database.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. Change the SQL Server authentication to mixed mode.
- B. Use sp_configure to enable remote access.
- C. From the Azure portal, add an endpoint for TCP port 1434.
- D. On the virtual machine, enable the inbound connections on TCP port 1433 from Windows Firewall.
- E. Restart the SQL Server service.

Answer: BDE

NEW QUESTION 86

You have an organizational data mart that contains 3.5 TB of uncompressed data.

The size of the data is expected to grow 2 annually. Reporting is performed only during business hours. You plan to move the data to the cloud.

You need to design a cloud architecture for the data mart. The solution must minimize costs and administrative overhead.

What is the best design to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. a Microsoft Azure SQL data warehouse
- B. a Microsoft SQL Server virtual machine
- C. a Microsoft Azure HDInsight cluster
- D. a Microsoft Azure SQL database

Answer: A

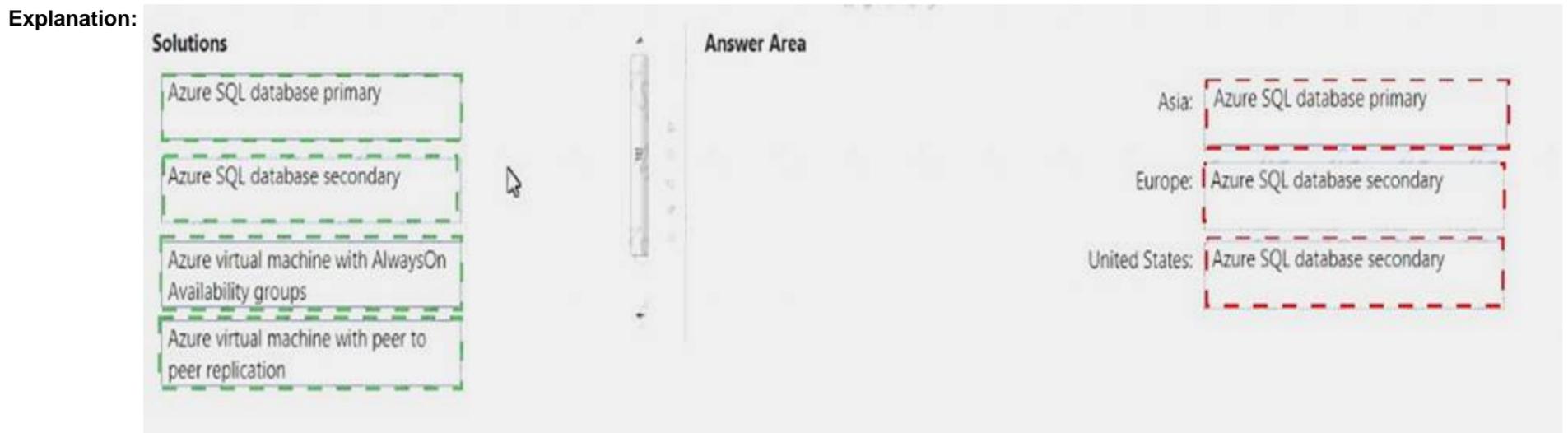
Explanation: References:
<https://azure.microsoft.com/en-gb/documentation/articles/sql-data-warehouse-overview-what-is/>

NEW QUESTION 91

You plan to move a database to Microsoft Azure.
 Users of the database will be located in the United States, Europe, and Asia. All modifications to the database will originate from the United States.
 You need to recommend a database solution that will minimize latency for all of the users. The solution must minimize costs.
 What should you recommend? To answer, drag the appropriate solutions to the correct locations. Each solution 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:



NEW QUESTION 96

You have Microsoft SQL Server installed on a Microsoft Azure virtual machine. The virtual machine is on the Standard D3 service tier. All of the data files for the databases on the virtual machine are located on a single volume that is mounted as drive E.
 The virtual machine experiences performance issues.
 You view the wait statistics and discover a high number of GEIOLATCH_SH waits associated to the tempdb data files.
 You need to resolve the performance issues. What should you do?

- A. Move the tempdb data files to drive D.
- B. Move the tempdb data files to drive C.
- C. Change the service tier of the virtual machine to Standard D12.
- D. Change the service tier of the virtual machine to Standard DS3.

Answer: A

NEW QUESTION 100

Your company has a Microsoft Azure SQL database that is hosted in the West US region and uses the S1 performance level.
 You need to ensure that the database is available as quickly as possible if the database is deleted accidentally. The solution must minimize data loss.
 What should you implement for the database?

- A. Active Geo-Replication

- B. database mirroring
- C. BACPAC exports
- D. log shipping

Answer: A

NEW QUESTION 105

You manage a large Microsoft Azure SQL database. The database contains data that changes several thousand times each day. You need to ensure that the performance of the database stays consistent when the data changes. What should you do?

- A. Update the statistics of all the tables in the database.
- B. Clear the procedure cache of the database.
- C. Run a consistency check on the tables in the database.
- D. Enable Extended Events for the server that contains the database.

Answer: C

NEW QUESTION 109

Your company has two offices located in London and New York.

The London office has a public IP of 131.107.1.1 and a private IP subnet of 192.168.4.0/24. The New York office has a public IP of 131.107.15.1 and a private IP subnet of 192.168.8.0/24.

You have a Microsoft Azure SQL database. Currently, only the users in the London office use the database. You plan to provide the users in the New York office with access to the database.

You need to ensure that the New York office users can access the database. Which command should you execute?

- A. EXECUTE sp_set_database_firewall_rule N'NewYork','131.107.15.1','255.255.255.255'
- B. EXECUTE sp_set_database_firewall_rule N'NewYork','192.168.8.0','192.168.8.255';
- C. EXECUTE sp_set_database_firewall_rule N'NewYork','192.168.8.0','255.255.255.0';
- D. EXECUTE sp_set_database_firewall_rule N'NewYork','131.107.15.1','131.107.15.1';

Answer: B

Explanation: References:

<http://azure.patrickkeisler.com/2015/11/configuring-the-azure-sql-database-firewall/>

<https://msdn.microsoft.com/en-gb/library/dn270010.aspx>

NEW QUESTION 111

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen.

You have a Microsoft Azure Database for MySQL Server named SQLDB1. Four database administrators manage SQLDB1.

You need to prevent any administrator from deleting the server that hosts SQLDB1. Solution: You remove the Delete permission for SQLDB1 from the Azure portal. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 112

Your environment contains a Microsoft Azure virtual machine and an Azure SQL database. The virtual machine has Microsoft SQL Server installed and contains several applications. You need to recommend a solution to migrate one of the applications to the Azure SQL database. The solution must minimize downtime. Which solution should you recommend?

- A. Implement log shipping.
- B. Implement transactional replication.
- C. Restore a BACPAC of the database.
- D. Restore a backup of the database.

Answer: B

NEW QUESTION 113

Your company has an application that uses several Microsoft Azure SQL databases. New databases are added regularly as customers sign up for new services. Databases are removed regularly as customers cancel the services.

You create an auditing policy.

You plan to configure auditing for all of the databases.

You need to ensure that all of the databases are audited constantly. Which cmdlet should you use?

- A. Set-AzureRmSqlDatabaseAuditingPolicy
- B. Use-AzureRmSqlServerAuditingPolicy
- C. Set-AzureRmSqlServerAuditingPolicy
- D. New-AzureRmOperationalInsightsAzureAuditDataSource

Answer: C

NEW QUESTION 114

You have Microsoft Azure SQL database named DB1. You plan to monitor the resource utilization of DB1. You need to review the following resource utilization:

- * Average compute
- * Average I/O

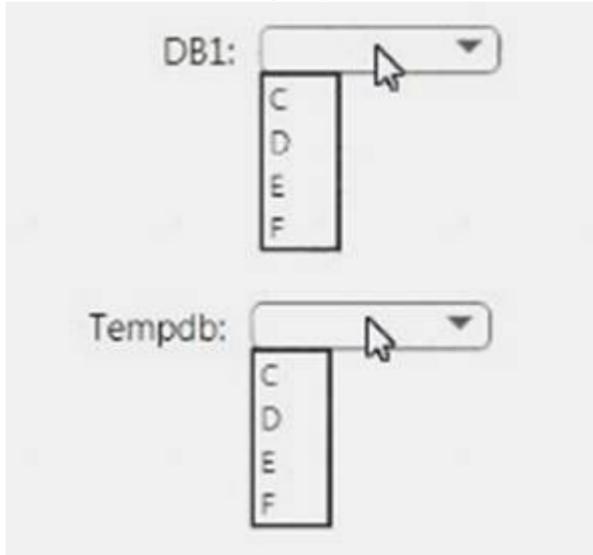
Which data management view should you use?

- A. sys.dm_db_resource_stats
- B. sys.elastic_pool_resource_stats
- C. sys.dm_exec_query_stats
- D. sys.resource_stats

Answer: A

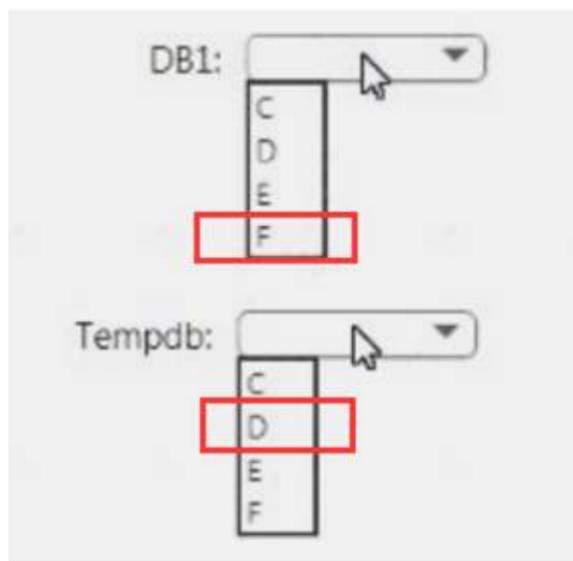
NEW QUESTION 117

You are provisioning a virtual machine in Microsoft Azure to host a Microsoft SQL Server database named DB1. The tempdb database on the SQL server is not expected to grow to more than 20 GB during the next five years. You add a 1-TB disk to the virtual machine and configure the disk as drive F. The disk is not configured for read or write caching. You need to reduce the amount of time required to read data from DB1 and tempdb. On which drive should you place each database? To answer, select the appropriate options in the answer area.



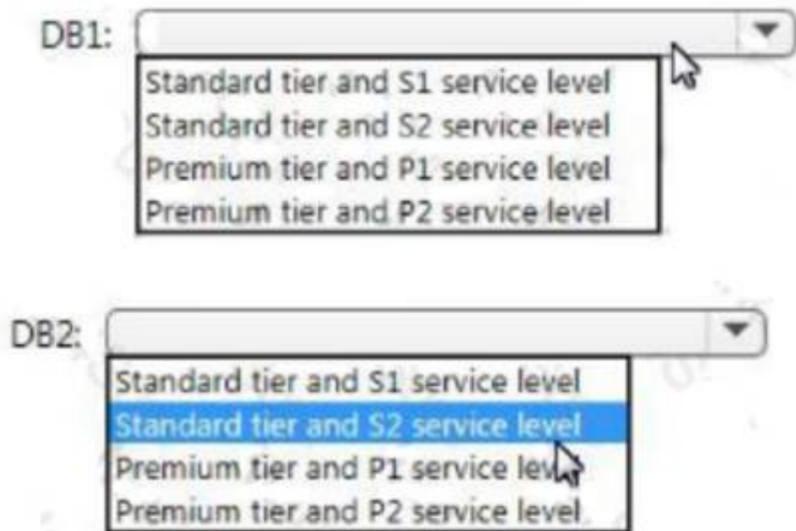
Answer:

Explanation:



NEW QUESTION 120

Your company's data center contains two databases named DB1 and DB2. DB1 contains 500 MB of data. DB2 contains 400 GB of data that is read-only. Both databases contain sensitive data. Each database regularly has more than 1,000 concurrent connections. You need to migrate the databases to Microsoft Azure SQL Database. The solution must minimize costs. Which tier and service level should you choose for each database? To answer, select the appropriate options in the answer area.



Answer:

Explanation: References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-dtu-resource-limits-single-databases#single-da>

NEW QUESTION 122

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen.

You plan to configure auditing for a Microsoft SQL Server instance that contains 17 databases.

You need to audit all of the SELECT statements that are executed against all of the databases. The solution must ensure that all gathered information is written to the application log.

Solution: You create a Server Audit Specification in the master database. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 124

HOTSPOT

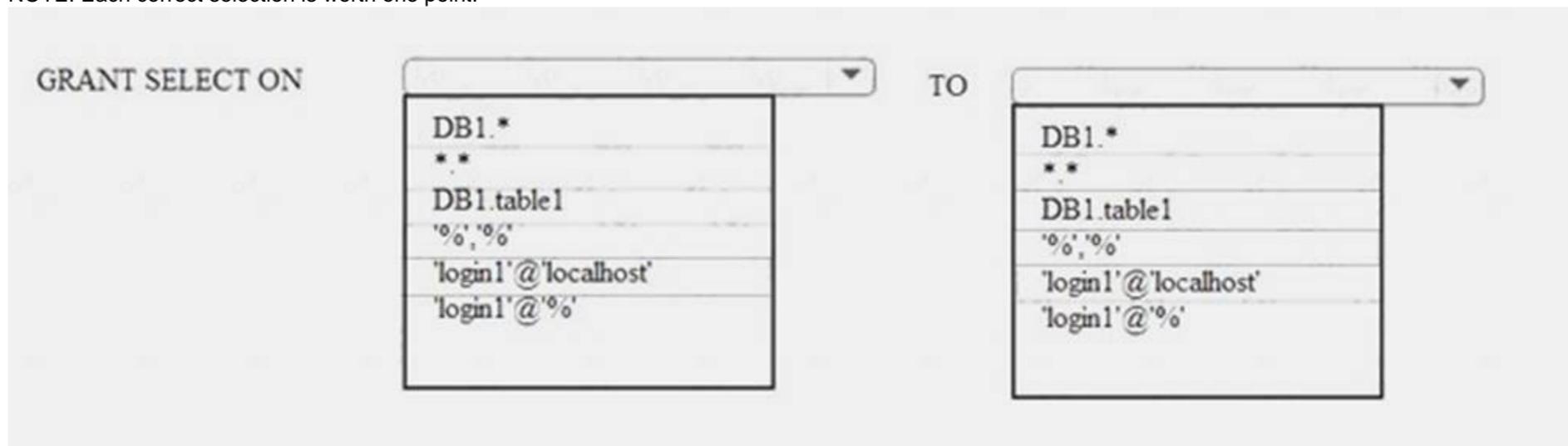
You have a database named DB1 hosted on Microsoft Azure Database for MySQL servers. DB1 contains two tables named table1 and table2. Several web servers access DB1.

You create a login named Login1 to access the database from any web server. You need to ensure that Login1 can read the tables in DB1.

The solution must ensure that Login1 can read all the tables created in the future.

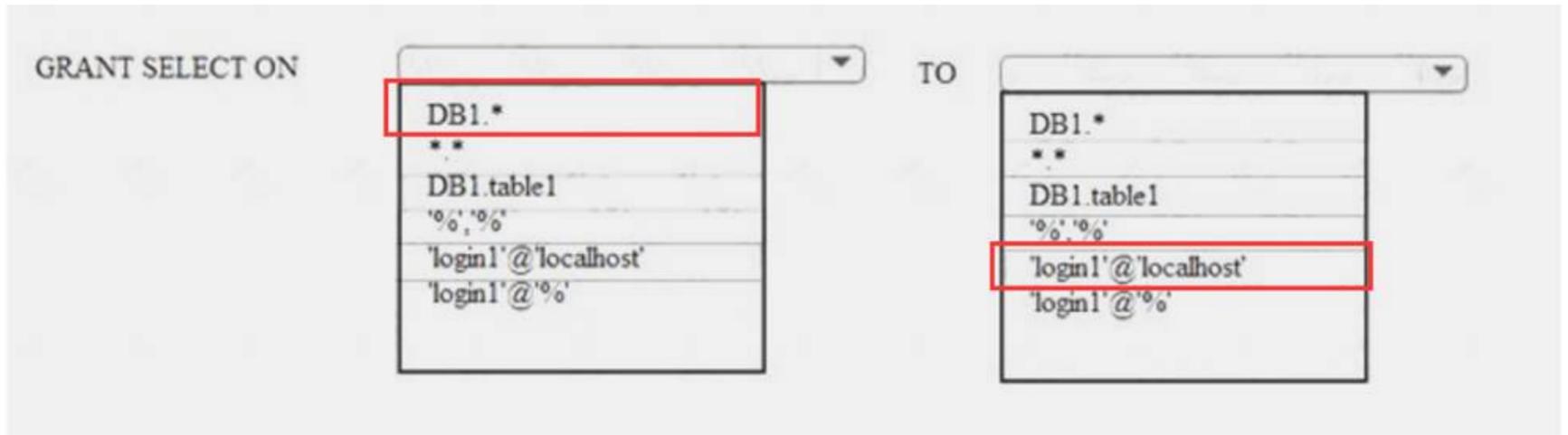
Which command should you run? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



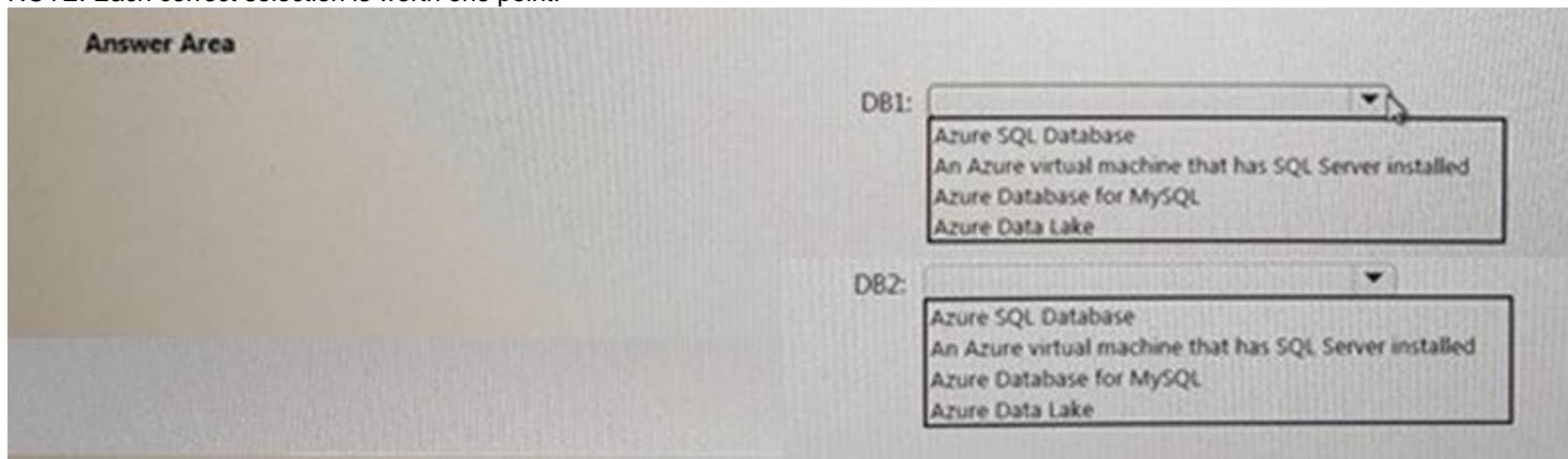
NEW QUESTION 127

Your company's data center contains three Microsoft SQL Server databases named DB1, DB2, and DB3. You plan to migrate the databases to Microsoft Azure. You need to provision the resources in Azure to meet the following requirements.

- * DB1 must be able to execute CLR assemblies.
- * DB2 must be able to run SQL Server Agent jobs.

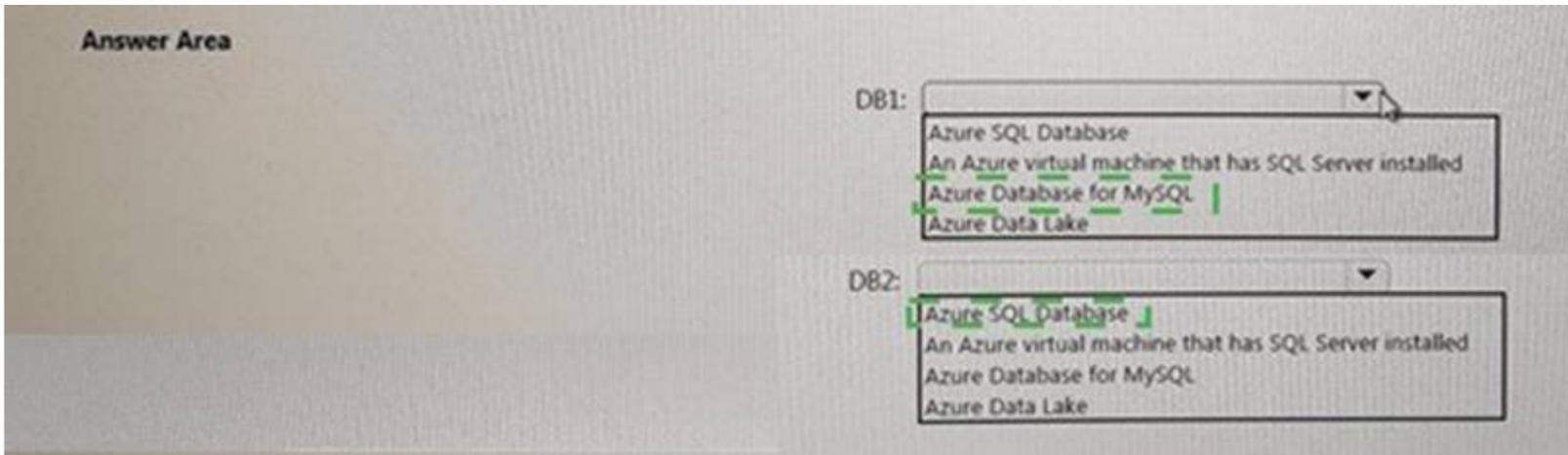
Which database solution should you use for each database? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION 132

You have a Microsoft Azure SQL database. The database is hosted in the West US region and uses the Premium service tier. Users of the database are located in Los Angeles, New York, and Singapore.

The users in Singapore report that when they run reports against the database, the reports take a long time to complete. The reports contain thousands of rows. You need to recommend a solution to resolve the performance issue. The solution must maintain the performance for the other users. What should you include in the recommendation?

- A. Move the Azure SQL database from the West US region to the East Asia region.
- B. Implement Azure ExpressRoute for the subscription.
- C. Configure a readable geo-replica in the East Asia region.
- D. Configure pagination for the report.

Answer: C

NEW QUESTION 136

NO: 157 DRAG DROP

You are monitoring a Microsoft Azure SQL database. You need to view which queries users are running against the database currently.

Which statement should you use? To answer, drag the appropriate elements to the correct locations. Each element 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.

Code Elements

Answer Area

sys.dm_exec_connections

sys.dm_exec_cursors

sys.dm_exec_distributed_sql_requests

sys.dm_exec_query_plan

sys.dm_exec_requests

sys.dm_exec_sql_text

SELECT session_id, USER_NAME(user_id), text
 FROM

CROSS APPLY (sql_handle)

Answer:

Explanation: Answer Area

SELECT session_id, USER_NAME(user_id), text
 FROM sys.dm_exec_requests

CROSS APPLY sys.dm_exec_sql_text (sql_handle)

NEW QUESTION 141

You have a Microsoft Azure SQL database. You need to audit the data access of the database owners who use Microsoft SQL Server Management Studio. What should you enable?

- A. transparent data encryption (TDE)
- B. database auditing
- C. server auditing
- D. row-level security

Answer: B

NEW QUESTION 145

You have several instances of Microsoft SQL Server on several Microsoft Azure virtual machines. You need to implement an automated process to back up all of the virtual machines to an Azure storage account. The process must run weekly. 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.

Actions

Answer Area

Create an event hub.

Create a runbook.

Create an automation account.

Create a resource group.

Schedule a runbook.



Answer:

Explanation: References:

<https://blogs.technet.microsoft.com/cbernier/2014/04/28/back-up-an-azure-vm-using-microsoft-azure-automatio>

NEW QUESTION 149

Your organization contains several Microsoft Azure SQL databases.

You need to ensure that an administrator is notified when SQL injection is detected on one of the databases. Which two features should you enable? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Threat detection
- B. Query Performance Insight
- C. Management Data Warehouse
- D. Auditing
- E. Azure Resource Health

Answer: AD

Explanation: References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-threat-detection>

NEW QUESTION 150

Your company has a data center located in Europe. The company has a 10 Mbps connection to the Internet that is 80 percent saturated on average. You have an on-premises Microsoft SQL Server database that is 6 TB. You plan to migrate the database to Microsoft Azure.

You need to recommend a solution to migrate the database to Azure. The solution must meet the following requirements:

- Ensure that the database is hosted in the West US region.
- Minimize any changes to the current network infrastructure.
- Minimize the amount of time required to migrate the database.

What is the best recommendation to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Use a database BACPAC file to export the database.
- B. Use a database DACPAC file to export the database.
- C. Use the Azure Import/Export service.
- D. Configure Azure ExpressRoute and copy the data files to a virtual machine.
- E. Use the BACKUP to URL option and use Azure Blob storage as the location.

Answer: C

NEW QUESTION 154

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Microsoft Azure tenant.

You need to provision a new Azure Database for MySQL server database in the tenant. Solution: You run the Add-AzureRmSqlDatabase cmdlet from PowerShell. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation: This would create an Azure SQL Server database.

NEW QUESTION 156

You have a report that runs against a Microsoft Azure SQL database. The report takes more time to return results than expected.

You add an index to a table in the database.

You need to identify whether adding the index improves the performance issue. What should you use?

- A. Database Engine Tuning Advisor
- B. Index Tuning Wizard
- C. Azure Throughput Analyzer
- D. Azure SQL Database Index Advisor

Answer: D

Explanation: References:

<https://azure.microsoft.com/en-gb/documentation/articles/sql-database-advisor/>

NEW QUESTION 158

Your company has a Microsoft Azure subscription that contains an AlwaysOn availability group named AG01. AG01 contains two nodes named DB01 and DB02 and a database named DATABASE1.

You plan to add additional nodes to AG01.

You need to minimize the administrative effort required to add the node. The solution must ensure that AG01 is configured to prevent data loss and can fail over without manual intervention.

Which statement should you run? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```

CREATE AVAILABILITY GROUP AG01
FOR DATABASE db1
REPLICA ON'DB01'
WITH (ENDPOINT_URL = N'TCP://db01.contoso.com:5022',
FAILOVER_MODE =
AVAILABILITY_MODE =
BACKUP_PRIORITY = 50,
SECONDARY_ROLE(ALLOW_CONNECTIONS = NO),
= AUTOMATIC)

```

- Automatic
- High Performance
- High Safety
- Manual

- Asynchronous Commit
- Automatic Failover
- Forced Failover
- Synchronous Commit

= AUTOMATIC)

- Backup
- Cluster_Type
- Listener
- Secondary_Role
- SEEDING_MODE

Answer:

Explanation:

Answer Area

```

CREATE AVAILABILITY GROUP AG01
FOR DATABASE db1
REPLICA ON'DB01'
WITH (ENDPOINT_URL = N'TCP://db01.contoso.com:5022',
FAILOVER_MODE =
AVAILABILITY_MODE =
BACKUP_PRIORITY = 50,
SECONDARY_ROLE(ALLOW_CONNECTIONS = NO),
= AUTOMATIC)

```

- Automatic
- High Performance
- High Safety
- Manual

- Asynchronous Commit
- Automatic Failover
- Forced Failover
- Synchronous Commit

= AUTOMATIC)

- Backup
- Cluster_Type
- Listener
- Secondary_Role
- SEEDING_MODE

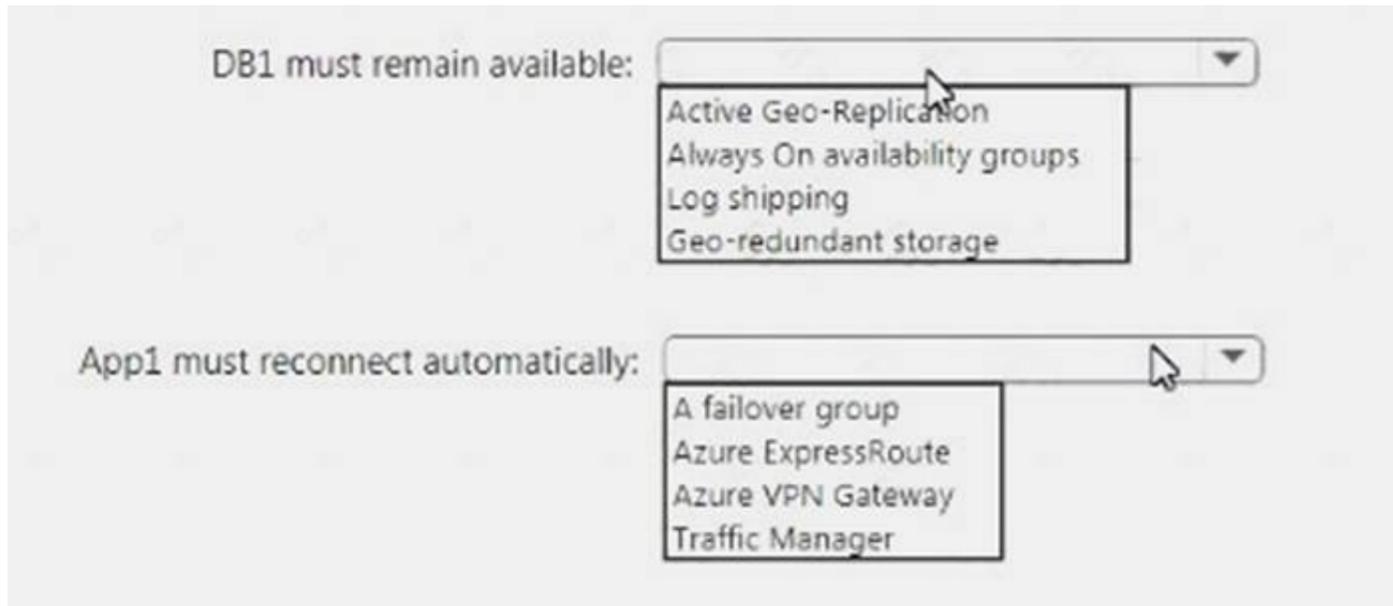
NEW QUESTION 160

You plan to deploy a Microsoft Azure SQL database named DB1 to support a new application named Appl. You need to recommend a solution for DB1 that meets the following requirements if a single region fails:

- DB1 must remain available.
- App1 must reconnect automatically.

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

NOTE: Each correct selection is worth one point.



Answer:

Explanation: References:
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-geo-replication-overview>

NEW QUESTION 163

Your company has a database that contains a column of private customer data. You need to recommend a solution to encrypt the data in the column. The solution must meet the following requirements:

- System administrators must be able to index the column.
- System administrators must be prevented from reading the data in the column.
- All the keys used in the solution must be stored in a highly available and secure location. What should you recommend? To answer, select the appropriate options in the answer area.



Answer:



NEW QUESTION 168

You need to provision a new Microsoft Azure Database for PostgreSQL server database. Which two actions should you perform to create the database? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. From Azure Cloud Shell, run the az sql db create command.
- B. From the PostgreSQL command prompt run the create database command.
- C. From PowerShellUn the New-object cmdlet.

- D. From the PostgreSQL command prompt, run the CREATEdb command.
- E. From PowerShell, run the New-AzureRmSqlDatabase cmdlet

Answer: BD

NEW QUESTION 171

You plan to create a database named DB1.
 You need to ensure that all the data in DB1 is encrypted when the database is at rest.
 Which four actions should you perform in sequence after you create DB1? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
From the master database, run CREATE MASTER KEY .	
From the master database, run CREATE CERTIFICATE cert1 WITH Subject = 'TDE Cert' .	
From DB1, run CREATE DATABASE ENCRYPTION KEY .	
From DB1, run CREATE CERTIFICATE cert1 WITH Subject = 'TDE Cert' .	
From master database, run CREATE DATABASE ENCRYPTION KEY .	
From the master database, run ALTER DATABASE DB1 SET ENCRYPTION ON .	

Answer:

Explanation: References:
<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?view=>

NEW QUESTION 173

You plan to deploy a data platform solution for 4 TB of data. The solution will be used to generate analytic reports during business hours only. All reports will be generated by using Microsoft Excel.
 You need to recommend a data platform for the data. The solution must minimize costs and provide the highest possible read performance.
 Which data platform should you recommend?

- A. Microsoft Azure SQL Data Warehouse
- B. Microsoft Azure Cosmos DB
- C. Microsoft Azure SQL Database
- D. Microsoft Azure Data Lake

Answer: D

NEW QUESTION 174

You plan to deploy two Microsoft Azure virtual machines that will run Microsoft SQL Server.
 You need to ensure that users can continue to access the data on the SQL servers during Azure planned maintenance events.
 Which three components should you include in the solution? Each correct answer presents part of the solution.
 NOTE: Each correct selection is worth one point.

- A. Traffic Manager
- B. an Always On availability group
- C. a virtual network service endpoint
- D. an availability set
- E. an internal load balancer

Answer: BDE

Explanation: References:
<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-portal-sql-alwa>

NEW QUESTION 176

You plan to migrate an on-premises Microsoft SQL Server database to a virtual machine hosted in Microsoft Azure. You need to ensure that each user of the database has a unique login after the migration is complete. Which stored procedure should you use to export the logins?

- A. sp_change_users_login
- B. xp_logininfo
- C. sp_help_revlogin
- D. sp_helplogins

Answer: C

Explanation: References:
<https://www.mssqltips.com/sqlservertip/3650/script-sql-server-logins-for-disaster-recovery/>

NEW QUESTION 177

You plan to create a data warehouse in Microsoft Azure for development purposes. The data warehouse must not exceed 10 terabytes (TB) in size. You must minimize costs for the environment. You need to create the data warehouse. Which Transact-SQL statement should you run?

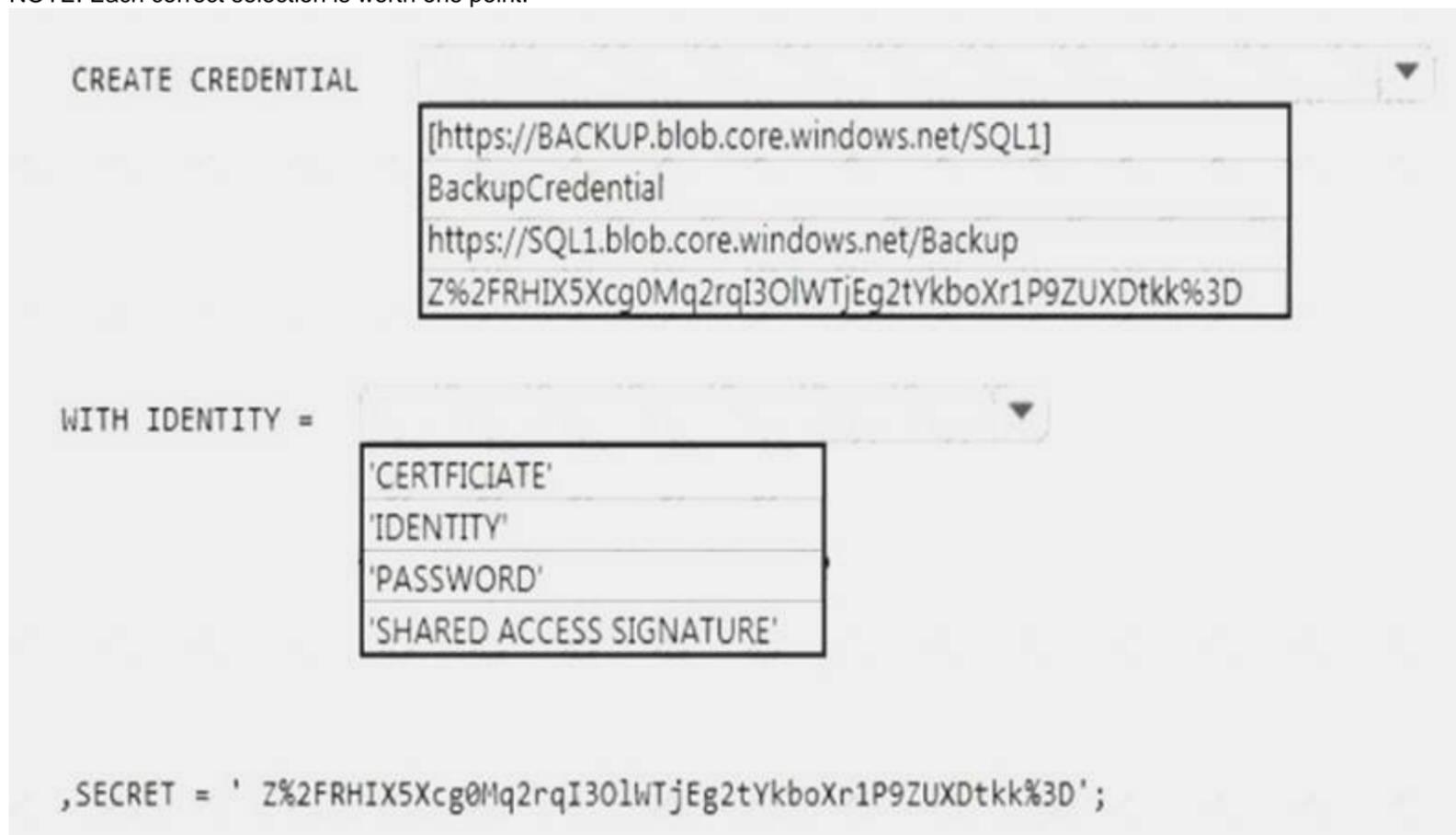


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

NEW QUESTION 179

Your company has a Microsoft Azure subscription that contains a virtual machine. The virtual machine has Microsoft SQL Server installed. You plan to configure the database to back up to a storage account named backup and a container named SQL1. You need to ensure that access to the database is secured at the container level. How should you complete the CREATE CREDENTIAL statement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION 183

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