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Microsoft DP-300 Exam is a challenging but rewarding certification test for aspiring database administrators. It requires a deep understanding of Microsoft Azure and relational database management systems. Candidates who pass the exam can demonstrate their expertise in administering relational databases on Microsoft Azure, which can help them advance their careers and take on new challenges in the field of database administration.

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The DP-300 exam is an essential certification for anyone looking to enhance their career in database administration. DP-300 exam is challenging, and passing it requires a significant amount of preparation and expertise. However, obtaining this certification is worth the effort, as it helps database administrators demonstrate their proficiency in managing and maintaining databases in an Azure environment. Moreover, the DP-300 Certification is recognized globally and is highly valued by organizations that use Microsoft Azure services.

Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q364-Q369):

NEW QUESTION # 364

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 two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1.

You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: From Microsoft SQL Server Management Studio (SSMS), you rename Database1 on Server2 as Database2. From the Azure portal, you create a new database on Server2 by restoring the backup of Database1 from Server1, and then you delete

Database2.

Does this meet the goal?

- A. No
- B. Yes

Answer: A

Explanation:

Section: [none]

Explanation:

Instead restore Database1 from Server1 to the Server2 by using the RESTORE Transact-SQL command and the REPLACE option.

Note: REPLACE should be used rarely and only after careful consideration. Restore normally prevents accidentally overwriting a database with a different database. If the database specified in a RESTORE statement already exists on the current server and the specified database family GUID differs from the database family GUID recorded in the backup set, the database is not restored. This is an important safeguard.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/restore-statements-transact-sql> Testlet 1 This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam.

You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a renewable energy company that has a main office in Boston. The main office hosts a sales department and the primary datacenter for the company.

Physical Locations

Litware has a manufacturing office and a research office in separate locations near Boston. Each office has its own datacenter and internet connection.

Existing Environment

Network Environment

The manufacturing and research datacenters connect to the primary datacenter by using a VPN.

The primary datacenter has an ExpressRoute connection that uses both Microsoft peering and private peering.

The private peering connects to an Azure virtual network named HubVNet.

Identity Environment

Litware has a hybrid Azure Active Directory (Azure AD) deployment that uses a domain named litwareinc.com.

All Azure subscriptions are associated to the litwareinc.com Azure AD tenant.

Database Environment

The sales department has the following database workload:

* An on-premises named SERVER1 hosts an instance of Microsoft SQL Server 2012 and two 1-TB databases.

* A logical server named SalesSrv01A contains a geo-replicated Azure SQL database named SalesSQLDb1.

SalesSQLDb1 is in an elastic pool named SalesSQLDb1Pool. SalesSQLDb1 uses database firewall rules and contained database users.

* An application named SalesSQLDb1App1 uses SalesSQLDb1.

The manufacturing office contains two on-premises SQL Server 2016 servers named SERVER2 and SERVER3. The servers are nodes in the same Always On availability group. The availability group contains a database named ManufacturingSQLDb1. Database administrators have two Azure virtual machines in HubVnet named VM1 and VM2 that run Windows Server 2019 and are used to manage all the Azure databases.

Licensing Agreement

Litware is a Microsoft Volume Licensing customer that has License Mobility through Software Assurance.

Current Problems

SalesSQLDb1 experiences performance issues that are likely due to out-of-date statistics and frequent blocking queries.

Requirements

Planned Changes

Litware plans to implement the following changes:

- * Implement 30 new databases in Azure, which will be used by time-sensitive manufacturing apps that have varying usage patterns. Each database will be approximately 20 GB.

* Create a new Azure SQL database named ResearchDB1 on a logical server named ResearchSrv01.

ResearchDB1 will contain Personally Identifiable Information (PII) data.

* Develop an app named ResearchApp1 that will be used by the research department to populate and access ResearchDB1.

* Migrate ManufacturingSQLDb1 to the Azure virtual machine platform.

* Migrate the SERVER1 databases to the Azure SQL Database platform.

Technical Requirements

Litware identifies the following technical requirements:

* Maintenance tasks must be automated.

* The 30 new databases must scale automatically.

* The use of an on-premises infrastructure must be minimized.

* Azure Hybrid Use Benefits must be leveraged for Azure SQL Database deployments.

* All SQL Server and Azure SQL Database metrics related to CPU and storage usage and limits must be analyzed by using Azure built-in functionality.

Security and Compliance Requirements

Litware identifies the following security and compliance requirements:

* Store encryption keys in Azure Key Vault.

* Retain backups of the PII data for two months.

* Encrypt the PII data at rest, in transit, and in use.

* Use the principle of least privilege whenever possible.

* Authenticate database users by using Active Directory credentials.

* Protect Azure SQL Database instances by using database-level firewall rules.

* Ensure that all databases hosted in Azure are accessible from VM1 and VM2 without relying on public endpoints.

Business Requirements

Litware identifies the following business requirements:

* Meet an SLA of 99.99% availability for all Azure deployments.

* Minimize downtime during the migration of the SERVER1 databases.

* Use the Azure Hybrid Use Benefits when migrating workloads to Azure.

* Once all requirements are met, minimize costs whenever possible.

NEW QUESTION # 365

You have an Azure subscription that contains an Azure SQL managed instance, a database named db1, and an Azure web app named App1. App1 uses db1.

You need to enable Resource Governor for a App1. The solution must meet the following requirements:

App1 must be able to consume all available CPU resources.

App1 must have at least half of the available CPU resources always available.

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. NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Actions

Create a plan.
Create a classifier function in db1.
Create a workload group.
Create a classifier function in the master database.
Create a resource pool that has the following configurations. MAX_CPU_PERCENT = 100 MIN_CPU_PERCENT = 50

Answer Area



Answer:

Explanation:

Answer Area

Create a resource pool that has the following configurations.....

Create a workload group.

Create a classifier function in the master database.

- 1 - Create a resource pool that has the following configurations.....
- 2 - Create a workload group.
- 3 - Create a classifier function in the master database.

NEW QUESTION # 366

You have an Azure subscription that contains an instance of SQL Server on Azure Virtual Machines. The virtual machine hosts a database named DB1. You need to monitor DB1 by using Extended Events. The solution must meet the following requirements:

- * Capture raw event data and store the data in Azure Storage.
- * Minimize the performance impact of capturing extended events.

How should you complete the Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
CREATE EVENT SESSION session1 ON DATABASE
  ADD EVENT sqlserver.sql_statement_starting
  (
    ACTION (sqlserver.sql_text)
    WHERE statement LIKE 'UPDATE gmTabEmployee%'
  )
  ADD TARGET
  package0.event_file
  event_file
  event_stream
  ring_buffer
)
SET filename = 'https://gmstorageaccountxevent.blob.core.windows.net/gmcontainerxevent/anyfilenameelix242b.xel'
)
WITH
  (MAX_MEMORY = 10 MB,
  EVENT_RETENTION_MODE= ALLOW_MULTIPLE_EVENT_LOSS
  MAX_DISPATCH_LATENCY = 3 SEC
  ALLOW_MULTIPLE_EVENT_LOSS
  ALLOW_SINGLE_EVENT_LOSS
  NO_EVENT_LOSS)
```

Answer:

Explanation:

```
CREATE EVENT SESSION session1 ON DATABASE
ADD EVENT sqlserver.sql_statement_starting
(
ACTION (sqlserver.sql_text)
WHERE statement LIKE 'UPDATE gmTabEmployee%'
)
ADD TARGET
package0. event_file
event_file
event_stream
ring_buffer
)
SET filename = 'https://gmstorageaccountxevent.blob.core.windows.net/gmcontainerxevent/anyfilename.xlsx'
)
WITH
(MAX_MEMORY = 10 MB,
EVENT_RETENTION_MODE= ALLOW_MULTIPLE_EVENT_LOSS
MAX_DISPATCH_LATENCY = 3 SECONDS
ALLOW_MULTIPLE_EVENT_LOSS
ALLOW_SINGLE_EVENT_LOSS
NO_EVENT_LOSS)
```

Explanation

D:\mudassar\Untitled.jpg

Answer Area

```
CREATE EVENT SESSION session1 ON DATABASE
ADD EVENT sqlserver.sql_statement_starting
(
ACTION (sqlserver.sql_text)
WHERE statement LIKE 'UPDATE gmTabEmployee%'
)
ADD TARGET
package0. event_file
)
SET filename = 'https://gmstorageaccountxevent.blob.core.windows.net/gmcontainerxevent/anyfilename.xlsx'
)
WITH
(MAX_MEMORY = 10 MB,
EVENT_RETENTION_MODE= ALLOW_MULTIPLE_EVENT_LOSS
MAX_DISPATCH_LATENCY = 3 SECONDS)
```

NEW QUESTION # 367

You have an Azure subscription.

You need to deploy an Azure SQL managed instance that meets the following requirements:

* Optimize latency.

* Maximize the memory-to-vCore ratio.

Which service tier and hardware generation should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Microsoft

Service tier: Business Critical

Business Critical

General Purpose

Hyperscale

Hardware generation: Premium-series - memory optimized

Premium-series

Standard-series (Gen 5)

Premium-series - memory optimized

Answer:

Explanation:

Answer Area

Microsoft

Service tier: Business Critical

Business Critical

General Purpose

Hyperscale

Hardware generation: Premium-series - memory optimized

Premium-series

Standard-series (Gen 5)

Premium-series - memory optimized

Explanation

Answer Area

Microsoft

Service tier: Business Critical

Hardware generation: Premium-series - memory optimized

NEW QUESTION # 368

Drag and Drop Question

You have an Azure subscription that contains an instance of SQL Server on Azure Virtual Machines named SQLVM1 and a virtual machine named Server1 that runs Windows Server.

SQLVM1 and Server1 are joined to an Active Directory Domain Services (AD DS) domain.

Server1 hosts a file share named Share1.

You need to ensure that a SQL Server Agent job step on SQLVM1 can access the files in Share1. The solution must use the principle of least privilege.

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

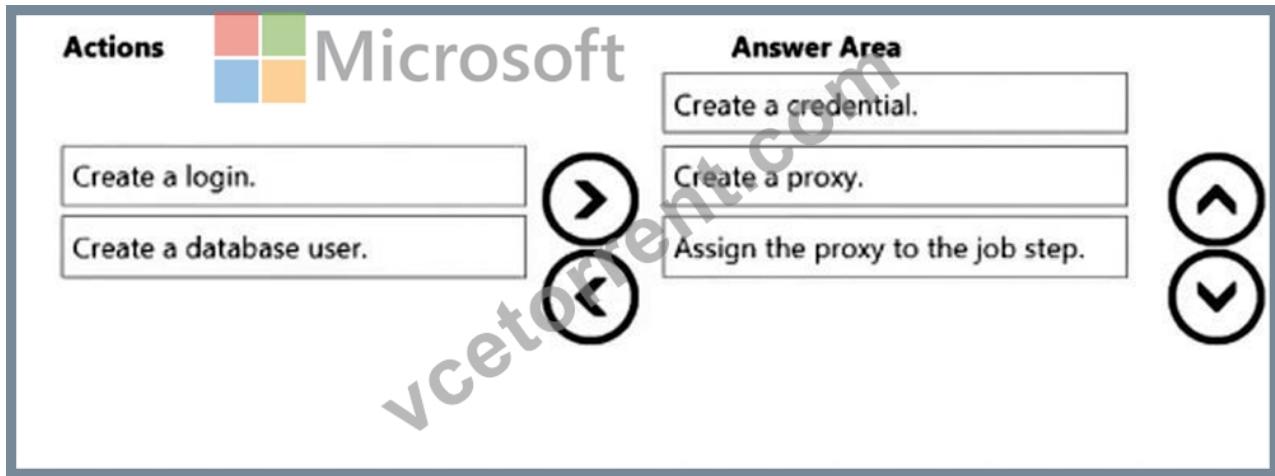
- Assign the proxy to the job step.
- Create a login.
- Create a database user.
- Create a credential.
- Create a proxy.

Answer Area



Answer:

Explanation:



NEW QUESTION # 369

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