

Microsoft.70-473.v2019-06-11.q83

Exam Code:	70-473
Exam Name:	Designing and Implementing Cloud Data Platform Solutions
Certification Provider:	Microsoft
Free Question Number:	83
Version:	v2019-06-11
# of views:	677
# of Questions views:	19821
https://www.freecram.net/torrent/Microsoft.70-473.v2019-06-11.q83.html	

NEW QUESTION: 1

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 on 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 CREATE DB command from the mysql command prompt.

Does this meet the goal?

A. Yes

B. No

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

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. During the outage, perform a data import from the main office by using SQL Server Management Studio.

B. Enable mirroring between the main office and the Azure virtual machine. During the planned outage, change the mirroring roles on the Azure virtual machine to become the primary server, and then break the mirror.

C. Run a full backup during the outage and restore the backup to the Azure virtual machine.

D. Implement merge replication between the main office and the Azure virtual machine.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

<https://blogs.msdn.microsoft.com/buckwoody/2013/01/08/microsoft-windows-azure-disaster-recovery- options-for-on-premises-sql-server/>

NEW QUESTION: 3

Your environment contains a Microsoft Azure virtual machine that has Microsoft SQL Server Standard installed.

An application named App1 uses the data stored in SQL Server. The Service Level Agreement (SLA) for App1 states that the application can lose a maximum of 10 minutes of data and that the data must be available if two Azure regions fail.

You need to implement a solution that provides disaster recovery for App1.

In two other Azure regions, you deploy an Azure virtual machine that has SQL Server installed. What should you implement next?

- A. Merge Replication
- B. AlwaysOn Failover Cluster Instances
- C. AlwaysOn Availability Groups
- D. Log Shipping

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

Availability Groups example: Availability replicas running across multiple datacenters in Azure VMs for disaster recovery. This cross-region solution protects against complete site outage.

Note: Microsoft SQL Server AlwaysOn is a collection of high availability and disaster recovery features introduced from SQL Server 2012. AlwaysOn is used to minimize the Recovery Point Objective (RPO) and Recovery Time Objective (RTO) and maximized availability databases. SQL Server AlwaysOn branding encompasses both FCIs (Failover Cluster) and AGs (Availability Group) an enterprise-level alternative to database mirroring.

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-high-availability-dr>

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

NEW QUESTION: 4

Your company has a Microsoft SQL Server database hosted on a Microsoft Azure virtual machine.

You create several reports that display data from the database.

Users report that the reports are slow to display data. You create an index.

You need to identify whether the performance of the reports significantly improves.

- A. SQL Server Profiler
- B. Query Store
- C. Database Engine Tuning Advisor
- D. Live Query Statistics

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

To view the live query execution plan, on the tools menu click the Live Query Statistics icon. The live query plan displays the overall query progress and operator-level run-time execution statistics such as the number of rows produced, elapsed time, operator progress, etc. Because this data is available in real time without needing to wait for the query to complete, these execution statistics are extremely useful for debugging query performance issues.

Incorrect Answers:

A: SQL Server Profiler is being discontinued.

B: The SQL Server Query Store feature provides you with insight on query plan choice and performance. It simplifies performance troubleshooting by helping you quickly find performance differences caused by query plan changes. Query Store automatically captures a history of queries, plans, and runtime statistics, and retains these for your review. It separates data by time windows so you can see database usage patterns and understand when query plan changes happened on the server.

C: Database Engine Tuning Advisor examines how queries are processed in the databases you specify, and then recommends how you can improve query processing performance by modifying database structures such as indexes, indexed views, and partitioning.

References: [https://docs.microsoft.com/en-us/sql/relational-databases/performance/live-query-statistics?](https://docs.microsoft.com/en-us/sql/relational-databases/performance/live-query-statistics?view=sql-server-2017)

[view=sql-server-2017](https://docs.microsoft.com/en-us/sql/relational-databases/performance/live-query-statistics?view=sql-server-2017)

<https://docs.microsoft.com/en-us/sql/relational-databases/performance/monitoring-performance-by-using-the-query-store?view=sql-server-2017>

<https://docs.microsoft.com/en-us/sql/tools/dta/tutorial-database-engine-tuning-advisor?view=sql-server-2017>

NEW QUESTION: 5

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

Answer: (SHOW ANSWER)

NEW QUESTION: 6

Your company's data warehouse contains several Microsoft SQL Server instances. You need to prevent unauthorized users from restoring backups of SQL Server database. What should you implement?

- A. Dynamic Data Masking
- B. BitLocker Drive Encryption (BitLocker)
- C. Transparent Data Encryption (TDE)
- D. Cell-level encryption

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 7

You need to recommend an auditing solution that meets the business goals. Which three events should you include in the recommendation? Each correct answer presents part of the solution.

- A. Stored Procedure
- B. Failed Connections
- C. Plain SQL
- D. Transaction Management
- E. Login

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 8

You need to recommend a backup solution for the ListTest database. What should you include in the recommendation?

- A. Extract a data-tier application (DAC).
- B. Use the bcp command.
- C. Use the SQL Server Migration Assistant (SSMA).
- D. Export a data-tier application (DAC).

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 9

You have a Microsoft Azure Infrastructure as a Service (IaaS) environment that contains a 3-TB data warehouse.

You need to recommend a solution to improve the read performance of the database. The solution must maintain data integrity.

Which task should you include in the recommendation?

- A. Enable read caching.
- B. Move the transaction logs to the temporary drive.
- C. Enable read/write caching.
- D. Set the interleave size to 64 KB.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Best practices include enabling read caching on the disk(s) hosting the data files and TempDB data files.

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

NEW QUESTION: 10

You have a Microsoft Azure SQL database.

You need to ensure that you can use the Always Encrypted feature for the database.

Which two components should you configure? Each correct answer presents part of the solution.

- A. the Column Master Key
- B. the database master key
- C. the service master key
- D. transparent data encryption (TDE)
- E. the Column Encryption Key

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

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

NEW QUESTION: 11

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 on 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 CREATE DATABASE command from the mysql command prompt.

Does this meet the goal?

- A. Yes
- B. No

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/mysql/quickstart-create-mysql-server-database-using-azure-portal>

NEW QUESTION: 12

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 sp_who2 stored procedure
- B. the sys.syscacheobjects view
- C. the sys.dm_exec_requests view
- D. the sys.dm_exec_connections view

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-exec-requests-transact-sql?view=sql-server-2017>

NEW QUESTION: 13

You have a Microsoft Azure SQL database named DB1 and a copy named DB1Test.

You use DB1Test to test the deployment of major updates to the database.

You discover that DB1Test contains outdated data.

You need to ensure that DB1Test contains recent data from DB1.

Which two statements should you execute? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. CREATE DATABASE DB1Test AS Snapshot OF DB1
- B. CREATE DATABASE DB1Test AS COPY OF DB1
- C. SELECT d.name AS DBName, d.state-desc
FROM sys.databases d
WHERE name= 'DB1Test'
- D. DROP DATABASE DB1Test
- E. ALTER DATABASE DB1Test
SET ONLINE;

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

This command copies Database1 to a new database named Database2 on the same server.

Depending on the size of your database, the copying operation might take some time to complete.

-- Execute on the master database.

-- Start copying.

CREATE DATABASE Database1_copy AS COPY OF Database1;

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-copy>

NEW QUESTION: 14

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: (SHOW ANSWER)

Explanation/Reference:

References:

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

NEW QUESTION: 15

You have an application that uses a Microsoft SQL Server database on a Microsoft Azure virtual machine.

The application experiences performance issues, which you suspect are related to the connection pooling.

The issues are prevalent only when there are more than 150 concurrent connections.

You need to identify whether the performance issues are related to the connection pooling.

Which dynamic management view should you query?

- A. sys.dm_os_memory_pools
- B. sys.dm_exec_requests
- C. sys.dm_exec_connections
- D. sys.dm_exec_sessions

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

https://blogs.msdn.microsoft.com/sql_pfe_blog/2013/10/08/connection-pooling-for-the-sql-server-dba/

NEW QUESTION: 16

You need to recommend a solution to meet the reporting requirements of App3.

What should you include in the recommendation?

- A. SQL Server replication
- B. Database mirroring
- C. AlwaysOn Availability Groups
- D. Azure Data Sync

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

SQL Data Sync is a service built on Azure SQL Database that lets you synchronize the data you select bi- directionally across multiple SQL databases and SQL Server instances.

Scenario: Two hundred customers plan to use App3 as soon as it becomes available. The customers request that their data be made available to them for reporting purposes. Some customers plan to use reporting in Azure, while other customers plan to use their own on-premises solution for reporting.

Reference: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-sync-data>

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NEW QUESTION: 17

You have a Microsoft Azure SQL database. Users report that queries to the database take longer than expected to complete.

You need to identify the amount of CPU resources that the database used during the last week. What should you do?

- A. Use Performance Monitor to connect to the Azure SQL database.
- B. Use the Azure portal to view the monitoring details of the Azure SQL database.
- C. Review the performance metrics by using Microsoft System Center.
- D. Query the sys.dm_os_performance_counters dynamic management view.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 18

You have a Microsoft SQL Server instance on a Microsoft Azure virtual machine.

The members of an Active Directory group named HelpDesk can log in to the SQL Server instance.

You need to ensure that the members of HelpDesk can query dynamic management views and gather performance metrics from the SQL Server instance.

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

- A. Add HelpDesk to the db_owner role for all of the databases.
- B. Add HelpDesk to the new role.
- C. Grant VIEW ANY DATABASE to the new role.
- D. Grant VIEW SERVER STATE to the newrole.
- E. Create a database role.

F. Create a server role.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<https://msdn.microsoft.com/en-us/library/ms188754.aspx>

NEW QUESTION: 19

What should you use to schedule the nightly jobs to meet the technical requirements?

- A. Migrate the SQL Server Agent jobs.
- B. Create an Azure Scheduler task.
- C. Create an Azure runbook.
- D. Implement an Elastic Database job.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Azure Automation can play the role of SQL Server Agent for Azure SQL DB.

Built into the Azure platform is Azure Automation and to get started, you have to create an automation account. You'll need to provide a name for the account, select your subscription, resource group, location, and determine if you want to create an Azure Run As account.

Once you create your account, you can then start creating runbooks. You can do just about anything with the runbooks. There are numerous existing run books that you can browse through and modify for your own use, including provisioning, monitoring, life cycle management, and more.

Scenario: After the migration to Azure, the business process must be scheduled to execute nightly at midnight Eastern Time (UTC-5). The implementation of the business processes must minimize administrative effort.

Incorrect Answers:

A: SQL Server agent is not supported in Azure.

Reference: <https://sqlperformance.com/2017/06/azure/automation-methods>

NEW QUESTION: 20

You have a hybrid Microsoft SQL Server environment that has multiple servers and services that run in both Microsoft Azure and on-premises.

If the network fails, you need to ensure that users can authenticate and connect to the resources available in Azure.

Which two server roles should you deploy to Azure? Each correct answer presents part of the solution.

- A. Active Directory Certificate Services
- B. DNS Server
- C. Active Directory Domain Services
- D. DHCP Server
- E. Active Directory Federation Services

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 21

Relecloud recently implemented the planned changes.

You plan to add a new customer named Fabrikam.Inc.

You need to ensure that the administrators at Fabrikam can access their data after the data loading process.

You collect the IP addresses used by the Fabrikam administrators.

Which Transact-SQL command or Azure PowerShell cmdlet should you use next?

- A. `sp_set_firewall_rule`
- B. `Set-AzureRmSqlServerFirewallRule`
- C. `sp_set_database_firewall_rule`
- D. `New-AzureRmSqlServerFirewallRule`

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

The `New-AzureRmSqlServerFirewallRule` cmdlet creates a firewall rule for the specified Azure SQL Database server.

Database-level firewall rules enable clients to access certain (secure) databases within the same logical server. You can create these rules for each database (including the master database) and they are stored in the individual databases.

Reference:

<https://docs.microsoft.com/en-us/powershell/module/azurerm.sql/new-azurermserverfirewallrule?view=azurerm-ps-6.7.0>

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-firewall-configure> Testlet 1

Overview Tailspin Toys is a worldwide manufacturing company that operates on several continents.

The company has datacenters in London and New York.

Existing Environment

Technical Problems

Users in London office and New York office report quick response times when they connect to the datacenters. Users in all other office report slow response times.

Application Environment

Tailspin Toys stores sensitive customer data.

The company uses several applications. An application named App1 uses Microsoft SQL Server as a back-end database. An application named App2 uses MySQL as a back-end database.

Customer audits of documents rarely occur. When an audit occurs, it is scheduled between the customer and the auditing team of Tailspin Toys.

Requirements

Planned Changes

Tailspin Toys plans to migrate several workloads to Microsoft Azure. As part of the planned migration, the company requires that the lowest costs for monthly Azure services and for SQL Server license plans be implemented, whenever possible.

Technical Requirements

The customer-sensitive data stored in Azure must be encrypted when at rest.

The on-premises environment of Tailspin Toys has several jobs that support business processes scheduled by using the SQL Server Agent. After the migration to Azure, the business process must be scheduled to execute nightly at midnight Eastern Time (UTC-5). The implementation of the business processes must minimize administrative effort.

Networking requirements

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

Applications

App1

App1 is developed and maintained by the developers at Tailspin Toys. The company plans to make architectural changes to the application to achieve the best possible performance and scale.

The database for App1 is named DB1 and is 100-TB. 99.8 percent of the data in DB1 is large object binary (LOB) data. After the data is uploaded to DB1, the data is accessed frequently for 10 days; then the data is accessed rarely for 20 days; and then the data is never accessed, unless a customer audit occurs.

Users in multiple Tailspin Toys offices worldwide must use App1 to access the relational records stored in DB1.

App1 has a Service Level Agreement (SLA) that requires an uptime of 99.95 percent.

After the planned migration to Azure, the finance department plans to replicate a subset of DB1 to an on-premises database for reporting purposes.

App2

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.

App3

As part of the planned migration to Azure, Tailspin Toys is developing a new application named App3 that will provide business-to-business features. Some of the customers that will use App3 will have a single employee, while others will have tens of thousands of employees using the application.

Due to the different sizes of the workloads, Tailspin Toys is concerned that parameter sniffing will hinder the performance of App3.

The web servers for App3 will be in multiple Azure regions and will use Traffic manager.

Customers worldwide will use App3. For each customer, the database for App3 must be located near the customer's corporate office. The customer also must be able to choose additional regions in which to store read-only copies of their database for an additional cost.

Two hundred customers plan to use App3 as soon as it becomes available. The customers request that their data be made available to them for reporting purposes. Some customers plan to use reporting in Azure, while other customers plan to use their own on-premises solution for reporting.

App3 has an SLA that requires 99.95 percent uptime.

The developers of App3 require an empty development database and a test database that contains data to test the application. The databases must be refreshed regularly.

NEW QUESTION: 22

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-B. The solution must meet the following requirements:

Ensure that the database is stored in premium storage.

Meet the business requirements.

Which virtual machine service tier should you identify?

A. Standard DS3

B. Standard A6

C. Standard GS2

D. Standard D3

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

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

1 Overview General Overview ADatum Corporation is a real estate firm that has offices throughout North America.

ADatum has a main office and four branch offices. The main office is located in Seattle. The branch offices are located in New York, Montreal, Denver, and Vancouver.

Existing Environment

Network Infrastructure

The network contains one Active Directory domain named adatum.com. Each office contains one domain controller.

Each office has a 100-Mbps connection to the Internet that is 20 percent saturated on average.

The offices connect to each other through the Internet by using VPN appliances.

ADatum uses the public IP addresses shown in the following table.

Office	Public IP address
Seattle	131.107.1.6
New York	131.107.2.6
Montreal	131.107.3.6
Denver	131.107.4.6
Vancouver	131.107.5.6

SQL Server Infrastructure

In the main office, ADatum hosts a Microsoft SQL Server instance on a server named SQL1. SQL1 has a

400-GB database named Listings. Log-shipped copies of Listings are present in each branch office. The copies are used for reporting. Currently, all of the SQL Server instances run SQL Server 2014 Enterprise edition.

Each branch office has an application server that hosts an application named App1. App1 is configured to connect to the Listings database on each local SQL Server instance for reporting and to connect to the SQL Server instance in the main office for any updates to property listings. The main office also has an application server that hosts App1. The application server connects to the local Listings database for reporting and for any updates to the property listings.

Historic activity of the Listings database shows a maximum of 475 concurrent requests from as many as

200 concurrent connections.

User Issues

Users report that, frequently, they are disconnected from the Listings database when they run reports.

Users also report that there is an unacceptable delay between when a property listing is updated and when the updated listing appears in the listings reports.

Developers report concerns about the lack of a testing environment in which code changes can be validated before being deployed to the production Listings database.

Requirements

Business Requirements

ADatum identifies the following business requirements:

- Minimize costs, whenever possible.

- Ensure that confidential data is encrypted at all times.

- Ensure that the primary database is hosted in Microsoft Azure.

- Ensure that all production databases maintain 99.9 percent availability.

- Ensure that all of the data between the offices and Azure is encrypted.

Planned changes

ADatum plans to implement the following changes:

- Move the primary database to Azure.

- Implement a data warehouse for reporting to offload reporting from the transactional Listings database.

Technical Requirements

ADatum identifies the following technical requirements:

A test environment that has a 200-GB subset of data from the Listings database must be implemented.

The new database will be named ListTest. The new test environment will have a maximum of 10 concurrent connections.

The migration of the Listings database must be completed in less than 60 minutes. During the migration, data must be prevented from being modified.

The firewall settings of the Azure SQL databases must be configured to provide access to the main

office only.

Changes to the settings and the properties of the Listings database must be audited at all times.

Access to the Clients table must be audited and data from the audit must be queryable.

The query performance of the ListTest database must be monitored at all times.

Reporting must be offloaded from the transactional Listings database.

High-Availability and Recovery Requirements

ADatum identifies the following high-availability and recovery requirements:

All production databases must support automatic failover.

Backups for the Listings database must be stored in Azure.

The database must be recoverable if a major data loss occurs.

A weekly backup of the ListTest database must be maintained on-premises.

SQL1 must be integrated into the high-availability solution as a reporting server.

NEW QUESTION: 23

You need to identify which service tier to use for the research department databases. The solution must meet the business goals and the department requirements.

What should you identify?

- A. an Azure virtual machine on the Basic service tier
- B. an Azure SQL database on the Premium service tier
- C. an Azure SQL database on the Standard service tier
- D. an Azure SQL database on the Basic service tier
- E. an Azure virtual machine on the Standard service tier

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 24

Your company has a data warehouse that contains a database named DB1.

You plan to implement data encryption DB1.

You need to configure DB1 to meet the following requirements:

Prevent the system administrators of App1 from reading the Personally Identifiable Information (PII)

stored in DB1.

Ensure that all backups are stored in an on-premises local drive for three days.

Ensure that all backups are stored in a remote location for 10 days.

Encrypt all backups.

All solutions must support the ODBC Driver for Microsoft SQL Server 2012.

Which two solutions should you implement for DB1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Encrypt within the application tier.
- B. Backup DB1 by using VSS snapshots.
- C. Implement the Always Encrypted feature.
- D. Backup DB1 to a disk and a URL by using MIRROR TO.
- E. Encrypt within DB1 by using EncryptByPassword.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The backup command argument has the MIRROR TO option

Always Encrypted is a new data encryption technology in Azure SQL Database and SQL Server that helps protect sensitive data at rest on the server, during movement between client and server, and while the data is in use. Always Encrypted ensures that sensitive data never appears as plaintext inside the database system.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault>

[https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/sql-server-backup-to-url?](https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/sql-server-backup-to-url?view=sql-server-2017)

[view=sql-server-2017](https://docs.microsoft.com/en-us/sql/relational-databases/backup-restore/sql-server-backup-to-url?view=sql-server-2017)

NEW QUESTION: 25

You need to recommend a solution to meet the network requirements.

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: ([SHOW ANSWER](#))

Explanation/Reference:

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.

Incorrect Answers:

B: If you need basic network level access control (based on IP address and the TCP or UDP protocols), you can use Network Security Groups (NSGs). An NSG is a basic, stateful, packet filtering firewall, and it enables you to control access based on a 5-tuple.

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

NEW QUESTION: 26

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 should you implement?

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

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/sql/sql-server/failover-clusters/windows/always-on-failover-cluster-instances-sql-server?view=sql-server-2017>

NEW QUESTION: 27

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: (SHOW ANSWER)

Explanation/Reference:

References:

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

NEW QUESTION: 28

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 29

Your company has two offices. The offices are 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 SQL Server database that is hosted on a Microsoft Azure virtual machine.

Currently, only the users in the London office use the database.

You need to create a new firewall rule to provide the users in the New York office with access to the database. The solution must protect the database from being accessed by users on the public Internet.

What should you do?

- A. Modify the endpoint from the Azure portal.
- B. Use the `sp_set_database_firewall_rule` stored procedure.
- C. Disable the Windows Firewall on the Azure virtual machine.
- D. Run the `New-AzureSqlDatabaseServerFirewallRuleAzure` PowerShell cmdlet.
- E. Use the Set Firewall Rule REST API.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

This Microsoft SQL Server database is hosted on a Microsoft Azure virtual machine. Therefore, remote access will be provided via the endpoint rather than a database level firewall rule.

NEW QUESTION: 30

You need to ensure that the performance statistics for the research department are collected. What should you enable?

- A. Query Performance Insight
- B. Scale and Configuration
- C. Dynamic Data Masking

D. Index advisor

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

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

NEW QUESTION: 31

You need to recommend a database strategy to support the planned new customers. The solution must minimize costs.

What should you recommend?

A. A Basic database pool that has at least 1.200 eDTUs

B. A Premium database pool that has at least 1.000 eDTUs

C. 30 Basic databases

D. 30 Premium P14 databases

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Scenario: Planned changes

Relecloud plans to move all of its customers to a delivery model that uses Azure SQL Database and plans to maintain a single database for each customer.

Relecloud plans to automate the process of creating the required infrastructure for each new customer, including the process of loading data to the customer databases.

Relecloud plans to onboard 30 new customer accounts during the next year. The data for the new customers is approximately 10 GB and has a static size. The new customers require a rapid response time to database queries and each customer has five to 10 concurrent logins.

Incorrect Answers:

B: A premium database pool would be more costly.

Reference: <https://azure.microsoft.com/en-us/pricing/calculator/?service=sql-database>

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NEW QUESTION: 32

You are planning the migration of SQL01 to an Azure virtual machine.

You need to identify which service tier to use for the virtual machine. The solution must meet the business goals and the technical requirements.

Which virtual machine service tier should you identify?

- A. Standard D3
- B. Standard A7
- C. Standard G2
- D. Standard DS13

Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

Testlet 1

General overview

Relecloud is in international data services company that has 1000 users. The company has a sales department, a marketing department, a research department, and a human resources department.

Physical locations

Relecloud has one office in Seattle. The company has customers throughout North America and Europe.

Relecloud has most of its computing infrastructure located in a datacenter in Los Angeles. The company also has a few servers that are configured as Microsoft Azure virtual machines.

Existing Environment

Active Directory

The network contains an Active Directory forest named relecloud.com. The forest contains two domains named relecloud.com and relecloud.local. The functions level of the domain is Windows Server 2008 R2.

Each office contains five domain controllers. Each office is configured as an Active Directory site.

Current business model

Relecloud maintains a single Microsoft SQL Server database named Database1. Database1 hosts all of the data for the customers of Relecloud. Database1 has a total of 600 GB of data. Relecloud provides data for its customers by using several methods of delivery, such as comma-separated value (CSV) files and fixed-width text files. All of the files are delivered by using File Transfer Protocol (FTP) or Secure (SFTP).

The SQL Server environment contains two on-premises servers and one server in the Azure region of US West. The Azure infrastructure contains as ExpressRoute connection.

The network contains the SQL servers configured as shown in the following table:

Server name	Location	CPU count	RAM
ServerDB1	On-premise	16	512GB
ServerDB2	On-premises	16	512GB
AzDB01	US West region	16	112 GB

ServerDB1 and ServerDB2 are members of an availability group.

Problem statements

Relecloud identifies several issues with its current data storage model. Multiple customers report that they have issues loading files into relational databases. Additionally, Relecloud administrators often fail to communicate with the FTP servers of the Relecloud customers. Currently, the memory and the CPU of ServerDB1 and ServerDB2 are nearly fully utilized.

Requirements

Business goals

Relecloud plans to take a leadership role in its industry and modernize its delivery method. The company also plans to offer its customers easier access to its data.

Planned changes

Relecloud plans to move all of its customers to a delivery model that uses Azure SQL Database and plans to maintain a single database for each customer.

Relecloud plans to automate the process of creating the required infrastructure for each new customer, including the process of loading data to the customer databases.

Relecloud plans to onboard 30 new customer accounts during the next year. The data for the new customers is approximately 10 GB and has a static size. The new customers require a rapid response time to database queries and each customer has five to 10 concurrent logins.

Security requirements

Relecloud identifies the following requirements:

- Customers must be able to read data only.

- Customers must be able to create custom views.

- Customers must be able to use two-factor authentication when accessing Azure SQL databases.

Technical requirements

Relecloud identifies the following technical requirements:

- Database administrators must be notified when the CPU pressure of AzDB01 exceeds 80 percent.

- If ServerDB0 and ServerDB2 fail, AzDB01 must be able to respond to customer requests for data.

Auditing requirements

Relecloud identifies the following requirements:

- All of the requests from the stored procedures that are run against the Azure SQL databases must be

- logged.

- All auditing information must be viewable in Microsoft Excel in real-time.

NEW QUESTION: 33

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

The size of the data is expected to grow 2 TB 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: ([SHOW ANSWER](#))

Explanation/Reference:

References:

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

NEW QUESTION: 34

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 on 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 Database Audit Specification in each database.

Does this meet the goal?

- A. Yes
- B. No

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

An auditing policy can be defined for a specific database or as a default server policy. A server policy applies to all existing and newly created databases on the server.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing>

NEW QUESTION: 35

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.

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

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 36

You need to tell the research project leaders how to migrate their databases.

Which task should you instruct the leaders to use from SQL Server Management Studio?

- A. Extract Data-tier Application
- B. Deploy Database to a Microsoft Azure VM
- C. Deploy Database to a Microsoft Azure SQL Database
- D. Copy Database

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<https://azure.microsoft.com/en-gb/documentation/articles/sql-database-cloud-migrate-compatible-using-ssms-migration-wizard/>

NEW QUESTION: 37

Your company has a Microsoft Azure MySQL database that is used by an Azure Web App. The logical server that hosts the database contains other databases.

You move the database to another Azure tenant.

You need to ensure that the Web App can access the database.

What should you do?

- A. Modify the SSL settings for the database server.
- B. Add an Azure virtual network gateway.
- C. Create a server-level firewall rule.
- D. Create a database-level firewall rule.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Azure Database for MySQL provides access security using a firewall to protect your data.

Create a firewall rule

On the MySQL server blade, under the Settings heading, click Connection Security to open the Connection Security blade for Azure Database for MySQL.

References: <https://docs.microsoft.com/en-us/azure/mysql/howto-connect-webapp>

NEW QUESTION: 38

You need to design a security strategy to support the planned changes for the customer databases. The solution must meet the security requirements.

Which two security roles should you grant to the customers? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. db_datawriter
- B. dbcreator
- C. db_owner
- D. db_ddladmin
- E. db_datareader

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

From Scenario: Security requirements

Relecloud identifies the following requirements:

Customers must be able to read data only. (db_datareader)

▪

Customers must be able to create custom views. (db_ddladmin)

▪

Customers must be able to use two-factor authentication when accessing Azure SQL databases.

▪

NEW QUESTION: 39

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

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 40

Your company register the domain name of contoso.com.

You plan to deploy two web servers, two application servers, and two Microsoft SQL Server instances on Microsoft Azure virtual machines. All of the virtual machines will be located on the same Azure virtual network. The SQL Server instances will be in an AlwaysOn availability group.

You need to ensure that the web servers and the application servers can access the availability group listener by using a fully qualified domain name (FQDN) from the contoso.com domain.

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

NOTE: Each correct selection is worth one point.

- A. Register a public DNS service on the Azure virtual network.
- B. Add a subnet to the Azure virtual network.
- C. Deploy a domain controller and join the virtual machines to the domain.

- D. Register a DNS server on the Azure virtual network.
- E. Use the Azure-provided name resolution service.
- F. Deploy a DNS server.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

B: You need a subnet for the VMs.

C: You need a domain for the availability group.

D: Azure assigns IP addresses and DNS server addresses to the VMs. By default, Azure will assign an IP address of an Azure DNS server to the VMs on the network.

To be able to join the VMs to a domain, you need the VMs to use the domain controller for their DNS server.

You need to register a DNS server on the Azure virtual network. The DNS server you will register is the domain controller. Registering the domain controller's IP address as the DNS server will configure Azure to assign the domain controller's IP address to the other VMs in the network which will enable you to join them to the domain.

NEW QUESTION: 41

You have a Microsoft SQL Server instance that hosts a database named DB1.

You plan to back up DB1 to Microsoft Azure Blob storage. You need to configure the required access to Azure blob storage for the planned backup.

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

NOTE: Each correct selection is worth one point.

- A. From the Azure portal, retrieve the access keys.
- B. From SQL Server Management Studio, create a database user.
- C. From the Azure portal, create a Shared Access Signature (SAS) token.
- D. From SQL Server Management Studio, create a certificate.
- E. From SQL Server Management Studio, create a credential.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 42

You are evaluating the use of active geo-replication for one of the research department databases.

You need to identify which service tier to use for the database. The solution must meet the department requirements and the business requirements.

What should you identify?

- A. Premium P1
- B. Premium P14
- C. Standard S0
- D. Basic

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

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

NEW QUESTION: 43

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 44

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 on 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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

This would create an Azure SQL Server database.

NEW QUESTION: 45

You have a Microsoft SQL Server 2014 instance on a Microsoft Azure virtual machine.

You need to ensure that all SQL Server audits are written to the Windows Security log.

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

- A. Configure the Audit policy change policy.
- B. Assign the Generate security audits user right.
- C. Configure the Audit object access policy.
- D. Assign the Log on as a service user right.
- E. Configure the Audit the access of global system objects policy.

Answer: (SHOW ANSWER)

Explanation/Reference:

References:

<https://msdn.microsoft.com/en-us/library/cc645889.aspx>

NEW QUESTION: 46

You need to configure a runbook to execute when a Microsoft Azure SQL database uses more than 80 percent of the Database Throughput Unit (DTU) resources.

What should you configure in the runbook?

- A. A trigger
- B. A Connection
- C. A Webhook
- D. A Job

Answer: (SHOW ANSWER)

Explanation/Reference:

Explanation:

You can call Azure Automation runbooks by using action groups or by using classic alerts to automate tasks based on alerts. When an alert calls a runbook, the actual call is an HTTP POST request to the webhook.

Note: You can use automation runbooks with three alert types: Classic metric alerts, Activity log alerts, and Near real-time metric alerts. The runbook must be called from an Azure alert via a webhook.

Reference: <https://docs.microsoft.com/en-us/azure/automation/automation-create-alert-triggered-runbook>

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NEW QUESTION: 47

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: C,E ([LEAVE A REPLY](#))

Explanation/Reference:

References:

<https://blogs.msdn.microsoft.com/mast/2017/09/12/how-to-monitor-and-alert-potential-disk-and-vm-level-io-throttling-on-windows-vms-using-arm/>

NEW QUESTION: 48

You have several SQL Server instances on Microsoft Azure virtual machines.

Periodically, one of the virtual machines runs more slowly than expected. The issue typically persists for up to 30 minutes. You investigate the issue and discover that when the issue occurs, there is high CPU usage on the virtual machines.

You need to be notified automatically when the performance issue occurs. You want to achieve this goal by using the minimum amount of administrative effort.

What should you configure?

- A. extended events to monitor the Processor:%Privileged Time of the virtual machine and SQL Server Agent alerts to notify the operator by sending an email message
- B. Azure Diagnostics for the logs on the virtual machine and a rule in Management Services to send you an email message when the CPU usage is more than 80 percent
- C. extended events to monitor the Processor:%User Time of the virtual machine and SQL Server Agent alerts to notify the operator by sending an email message
- D. an alert rule in the Azure portal to send you an email message when the CPU usage is more than 80 percent for five consecutive minutes

Answer: D ([LEAVE A REPLY](#))

Explanation/Reference:

References:

<http://msdn.microsoft.com/en-us/library/azure/dn306639.aspx>

NEW QUESTION: 49

You have a Microsoft Azure SQL database named DB1.

You need to monitor DB1 to identify all regressed queries.

Which command should you use?

- A. `select*`
from sys.dm_exec_query_stats
- B. `ALTER DATABASE DB1 SET QUERY_STORE (OPERATION_MODE=READ_WRITE)`
- C. `select*`
from sys.dm_exec_query_stats

cross apply sys.dm_exec_query_plan(plan_handle)

D. ALTER DATABASE DB1 SET QUERY_STORE (QUERY_CAPTURE_MODE= ALL)

GO

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Queries with multiple plans? These queries are especially interesting because they are candidates for regressions due to plan choice change. The following query identifies these queries along with all plans:

WITH Query_MultPlans

AS

```
(
SELECT COUNT(*) AS cnt, q.query_id
FROM sys.query_store_query_text AS qt
JOIN sys.query_store_query AS q
ON qt.query_text_id = q.query_text_id
JOIN sys.query_store_plan AS p
ON p.query_id = q.query_id
GROUP BY q.query_id
HAVING COUNT(distinct plan_id) > 1
)
```

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/performance/monitoring-performance-by-using-the-query-store?view=sql-server-2017#Regressed>

<https://blogs.msdn.microsoft.com/sqlserverstorageengine/2017/04/24/how-to-find-query-plan-choice-regressions-with-sql-server-2017-ctp2/>

NEW QUESTION: 50

A customer plans to monitor the performance of a Microsoft Azure SQL database.

You need to explain to the customer which metrics are used to calculate the Database Throughput Unit (DTU) percentage. Which three metrics should you identify? Each correct answer presents part of the solution.

- A. Log IO percentage
- B. Data IO percentage
- C. CPU percentage
- D. Blocked by firewall
- E. Database size percentage
- F. Total database size

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<http://dtucalculator.azurewebsites.net/>

NEW QUESTION: 51

Which database platform should App3 use?

- A. Azure Database for MySQL
- B. Azure SQL Database
- C. Azure Database for PostgreSQL
- D. an Azure virtual machine that has SQL Server installed

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Question Set 1

NEW QUESTION: 52

Your company has a Microsoft Azure subscription that contains an AlwaysOn availability group.

The availability group contains a single database named DB1.

You recently forced a manual failover of the availability group.

You discover that DB1 on a secondary replica has a status of Not Synchronizing.

You need to ensure that DB1 synchronizes correctly.

What should you do?

- A. Issue an ALTER DATABASE DB1 HARD RESUME on the primary replica.
- B. Restart the instance that hosts the secondary replica.
- C. Restart the instance that hosts the primary replica.
- D. Issue an ALTER DATABASE DB1 HARD RESUME on the secondary replica.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<https://blogs.msdn.microsoft.com/alwaysonpro/2017/11/29/availability-group-database-reports-not-synchronizing-recovery-pending/>

NEW QUESTION: 53

You need to prepare the Azure environment for the planned migration of DB1. The solution must meet the requirements of the finance department.

Which two tasks should you perform in Azure? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure a Filtered replication publication
- B. Create an Azure virtual machine that runs SQL Server
- C. Configure multiple active replicas.
- D. Create an Azure SQL database.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/replication/publish/filter-published-data?>

view=sql-server-2017

NEW QUESTION: 54

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. CREATE DATABASE CloudDataWarehouse (
EDITION = 'premium',
SERVICE_OBJECTIVE= 'P1'
)

B. CREATE DATABASE CloudDataWarehouse (
EDITION= 'datawarehouse',
SERVICE_OBJECTIVE= 'DW200'
)

C. CREATE DATABASE CloudDataWarehouse (
EDITION= 'basic'
SERVICE_OBJECTIVE = 'basic'
)

D. CREATE DATABASE CloudDataWarehouse (
EDITION = 'standard',
SERVICE_OBJECTIVE = 'P11'
)

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

EDITION specifies the service tier of the database. For SQL Data Warehouse use 'datawarehouse'.

References: https://docs.microsoft.com/en-us/sql/t-sql/statements/create-database-transact-sql?view=sql-server-2017&tabs=sql_dw

NEW QUESTION: 55

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 Data Factory pipeline.

B. Deploy an Azure logic app.

- C. Create a SQL Server Agent job.
- D. Create an Azure alert based on an event
- E. Create an Azure metric alert.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 56

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 57

You are designing the data warehouse.

You need to recommend a solution that meets the business goals and the technical requirements.

What should you recommend?

- A. Create an Azure DocumentDB database.
- B. Host the data warehouse on an Azure virtual machine.
- C. Create an Azure HDInsight cluster.
- D. Create an AlwaysOn availability group between SQL03 and SQL04.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 58

You have Microsoft SQL Server 2014 installed on a Microsoft Azure virtual machine.

One of the databases on the virtual machine supports a highly active Online Transaction Processing (OLTP) application. Users report abnormally long wait times when they submit data in the application.

Which two tools can you use to identify the longest running queries? Each correct answer presents a complete solution.

- A. the Job Activity Monitor
- B. Database Engine Tuning Advisor
- C. dynamic management views

D. SQL Server Extended Events

E. SQL metrics in Azure Diagnostics for the virtual machine

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

C: Microsoft Azure SQL Database enables a subset of dynamic management views to diagnose performance problems, which might be caused by blocked or long-running queries, resource bottlenecks, poor query plans, and so on. You can detect such common performance problems by using dynamic management views.

D: The SQL Profiler has been replaced by SQL Server Extended Events.

Extended Events works via Event Tracing (ETW). This has been the common way for all Microsoft related technologies to expose diagnostic data.

ETW provides much more flexibility.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-monitoring-with-dmvs>

<https://stackify.com/performance-tuning-in-sql-server-find-slow-queries>

NEW QUESTION: 59

You have an application named App1 that uses a Microsoft Azure SQL database.

Some users report that they receive messages similar to the following error message:

"Transaction (Process ID65) was deadlocked on locked resources with another process and has been chosen as the deadlock victim. Rerun the transaction." You need to identify the cause of the error.

Which view should you query?

A. sys.dm_os_wait_stats

B. sys.event_log

C. sys.resource_stats

D. sys.dm_tran_locks

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

sys.dm_os_wait_stats returns information about all the waits encountered by threads that executed. One type of wait is queue waits, which occur when a worker is idle, waiting for work to be assigned. Queue waits are most typically seen with system background tasks such as the deadlock monitor and deleted record cleanup tasks.

Incorrect Answers:

D: sys.dm_tran_locks returns information about currently active lock manager resources in SQL Server

2017. Each row represents a currently active request to the lock manager for a lock that has been granted or is waiting to be granted.

The columns in the result set are divided into two main groups: resource and request. The resource group describes the resource on which the lock request is being made, and the request group describes the lock request.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-os-wait-stats-transact-sql?view=sql-server-2017>

NEW QUESTION: 60

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 on 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 database resource in Azure.

Does this meet the goal?

A. Yes

B. No

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

The delete lock should on the server resource instead.

References: <https://blogs.msdn.microsoft.com/azuresqlsupport/2017/06/19/protecting-deletions-of-azure-sql-resources/>

NEW QUESTION: 61

You need to recommend a disaster recovery solution for the CRM application that meets the business requirements.

What should you recommend?

A. log shipping

B. backup and restore by using Windows Azure Storage

C. AlwaysOn Availability Groups

D. database mirroring

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 62

You need to recommend a solution to migrate the Listings database to the cloud.

What should you recommend?

- A. Run a full backup during the outage and restore the backup to the Azure virtual machine.
- B. Stage the Listings database on an Azure virtual machine prior to the outage. During the outage, perform a data import from the main office by using SQL Server Management Studio.
- C. Implement log-shipping between the main office and an Azure virtual machine prior to the migration date. During the planned outage, perform a final log backup, restore the backup to the secondary, and then switch the secondary to the primary role.
- D. Implement merge replication between the main office and the Azure virtual machine.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 63

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

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 64

You are evaluating whether an Azure SQL Database elastic database pool suits your workload and usage patterns.

What are two possible ways to identify the elastic database transaction units (eDTUs)? Each correct answer presents a complete solution.

- A. Aggregate data from sys.dm_os_performance_counters.
- B. Run the Service Tier Advisor.
- C. Aggregate data from sys.dm_db_resource_stats.
- D. Run the Database Engine Tuning Advisor.
- E. Aggregate data from sys.dm_os_wait_stats.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 65

You recently implemented a Microsoft Azure SQL data warehouse.

You discover that during peak hours, the data warehouse takes longer than expected to generate reports.

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

What should you do from the Azure portal?

- A. Increase the number of Database Throughput Units (DTUs).
- B. Move the data warehouse to a different resource group.
- C. Add storage to the data warehouse.
- D. Increase the number of Data Warehouse Units (DWUs).

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

With SQL Data Warehouse CPU, memory, and IO are bundled into units of compute scale called Data Warehouse Units (DWUs). A DWU represents an abstract, normalized measure of compute resources and performance. By changing your service level you alter the number of DWUs that are allocated to the system, which in turn adjusts the performance, and the cost, of your system.

Incorrect Answers:

A: Database Throughput Unit (DTU): DTUs provide a way to describe the relative capacity of a performance level of Basic, Standard, and Premium databases. DTUs are based on a blended measure of CPU, memory, reads, and writes. As DTUs increase, the power offered by the performance level increases.

Reference: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/what-is-a-data-warehouse-unit-dwu-cdwu>

NEW QUESTION: 66

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: ([SHOW ANSWER](#))

NEW QUESTION: 67

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 on 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 Database Audit Specification in the master database.

Does this meet the goal?

A. Yes

B. No

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

An auditing policy can be defined for a specific database or as a default server policy. A server policy applies to all existing and newly created databases on the server.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing>

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 on 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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

An auditing policy can be defined for a specific database or as a default server policy. A server policy applies to all existing and newly created databases on the server.

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing>

NEW QUESTION: 69

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. New-AzureRmOperationalInsightsAzureAuditDataSource

- B. Use-AzureRmSqlServerAuditingPolicy
- C. Set-AzureRmSqlServerAuditingPolicy
- D. Set-AzureRmSqlDatabaseAuditingPolicy

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 70

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: ([SHOW ANSWER](#))

Explanation/Reference:

References:

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

NEW QUESTION: 71

You need to implement a solution to meet the technical requirements for the encryption of the data in App1.

Which two features should you enable? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

Answer: A,D ([LEAVE A REPLY](#))

Explanation/Reference:

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-azure-key-vault-sql-server?view=sql-server-2017>

[https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?](https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?view=sql-server-2017)

[view=sql-server-2017](https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption?view=sql-server-2017)

NEW QUESTION: 72

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: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

An Azure Resource Manager template presents the different sections of a template and the properties that are available in those sections. The template consists of JSON and expressions that you can use to construct values for your deployment.

Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-authoring-templates>

NEW QUESTION: 73

Your company identifies a stored procedure that runs slowly.

You review the execution plan for the stored procedure, and you discover the properties of a Clustered Index Scan operator as shown in the exhibit. (Click the Exhibit button.)

Clustered Index Scan (Clustered)

Scanning a clustered index, entirely or only a range.

Physical Operation	Clustered Index Scan
Logical Operation	Clustered Index Scan
Actual Execution Mode	Row
Estimated Execution Mode	Row
Storage	RowStore
Actual Number of Rows	0
Actual Number of Batches	0
Estimated I/O Cost	0.003125
Estimated Operator Cost	0.0032831(100%)
Estimated Subtree Cost	0.0032831
Estimated CPU Cost	0.0001581
Estimated Number of Executions	1
Number of Executions	1
Estimated Number of Rows	1
Estimated Row Size	295 B
Actual Rebinds	0
Actual Rewinds	0
Ordered	False
Node ID	0
Predicate	
CONVERT_IMPLICIT(nvarchar(512),[SampleDatabase],[dbo],[Files],[FileName],0)=[@FileName]	

The stored procedure contains the following code:

```
CREATE PROCEDURE GetFile
    @FileName nvarchar(512)
AS
SELECT *
FROM Files
WHERE FileName = @FileName
```

You need to improve the performance of the stored procedure.

What should you do?

- A. Change the FileName column from varchar(512) to nvarchar(512).
- B. Convert the table to an In-Memory OLTP optimized table.
- C. Add a NOLOCK query hint to the SELECT statement.
- D. Add a FORCESEEK query hint to the SELECT statement.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 74

You are planning the consolidation of the databases from Host1.

You need to identify which methods to use to back up the data after the consolidation completes. What are two possible methods that achieve this goal? Each correct answer presents a complete solution.

- A. AlwaysOn failover clustering
- B. AlwaysOn Availability Groups
- C. BACKUP TO URL
- D. a maintenance plan

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 75

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. BACPAC exports
- B. log shipping
- C. database mirroring
- D. Active Geo-Replication

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 76

You have a Microsoft Azure SQL database.

You need to provide a copy of the database to an auditor.

What should you do?

- A. Run the CREATE DATABASE statement and use the AS COPY OF clause.
- B. Run the CREATE DATABASE statement and use the AS SNAPSHOT OF clause.
- C. Run the sp_detach_db stored procedure and the sp_attach_db stored procedure.
- D. Run the BACKUP DATABASE statement and the RESTORE DATABASE statement.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Azure SQL Database does not support the BACKUP DATABASE statement.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-copy#copy-a-database-by-using-transact-sql>

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Testlet 1

Overview

General Overview

Proseware, Inc. is a software engineering company that has 100 employees. Proseware has sales, marketing, accounts, human resources IT, and development departments.

The IT department has one team dedicated to managing the internal resources and one team dedicated to managing customer resources, which are located in the company's hosting environment.

Proseware develops websites, basic web apps, and custom web apps. The websites and the apps are hosted and maintained in the hosting environment of Proseware.

Physical Locations

Proseware has two offices located in Seattle and Montreal. The Seattle office contains all of the hardware required to host its customers' websites, web apps, and databases. The Seattle office contains the IT team for the hosting environment.

The Montreal office contains all of the hardware required to host the company's internal applications, databases, and websites.

Each office connects directly to the Internet. Testing reveals that the minimum latency from the offices to Microsoft Azure is 20 ms.

Existing Environment

Internal Microsoft SQL Server Environment

Proseware uses a custom customer relationship management (CRM) application.

The internal Microsoft SQL Server environment contains two physical servers named CRM-A and CRM-B.

Both servers run SQL Server 2012 Standard and host databases for the CRM application.

CRM-A hosts the principal instance and CRM-B hosts the mirrored instance of the CRM database. CRM-A also hosts databases for several other applications that are used by the company's internal applications.

CRM-A has a quad core processor and 12 GB of RAM. CRM-B has a dual core processor and 8 GB of RAM.

Custom Web Applications Environment

Some Proseware customers request custom web-based applications that require more than just databases, such as SQL Server Integration Services (SSIS) and CLR stored procedures.

Proseware uses a Hyper-V server named Host1. Host1 has four instances of SQL Server 2014 Enterprise in the host operating system. The instances are mirrored on a server named Host2. Host1 also hosts four virtual machines named VM1, VM2, VM3, and VM4. VM1 has SQL Server 2005 Standard installed. VM2 has SQL Server 2005 Enterprise Edition installed. VM3 has SQL Server 2008 Standard Edition installed. VM4 has SQL Server 2008 R2 Standard Edition installed. Host1 uses a SAN to store all of the data and log files for the four SQL Server instances and the four virtual machines.

Websites and Basic Web Apps Environment

Proseware has two physical servers named WebServer1 and WebData1. WebServer1 hosts basic web apps and websites for its customers. WebData1 has a database for each website and each basic web app that Proseware hosts. WebData1 has four cores and 8 GB of RAM.

Each website database contains customer information for billing purposes. Proseware generates a consolidated report that contains data from all of these databases.

The relevant databases on WebData1 are:

- CWDB: Currently 60 GB and is not expected to exceed 100 GB. CWDB contains a table named PersonallInfo.

- MovieReviewDB: Currently 5 GB and is not expected to exceed 10 GB.

Marketing Department

Proseware has a web app for the marketing department. The web app uses an Azure SQL database.

Managers in the marketing department occasionally bulk load data by using a custom application. The database is updated daily.

Problem Statements

Proseware identifies the following issues:

- Lack of planning and knowledge has complicated the database environment.

- Customers who have web apps hosted on WebServer1 report frequent outages caused by failures on

- WebData1. The current uptime is less than 90 percent.

- Internally, users complain of slow performance by the CRM application when the databases fail over to

- CRM-B.

- WebData1 has no high-availability option for the databases or the server.

- An internal licensing audit of SQL Server identifies that Proseware is non-compliant. Host1, CRM-A, and

- CRM-B are licensed properly. VM1, VM2, VM3, VM4, and WebData1 are unlicensed.

Business Requirements

Proseware identifies the following business requirements:

- Upgrade the infrastructure to address the issues reported by the internal users and customers.

- Minimize upgrade costs associated with purchasing hardware and software.

- Ensure that all software is licensed properly.

- Minimize the complexity of the database environment.

- Consolidate the instances of SQL Server that support the custom web app environment.

- Implement a service level agreement (SLA) of 99.95 percent uptime for the website and basic web app

- environment.

- Implement a disaster recovery environment in Azure for the CRM application.

- Ensure that any changes to the SQL Server environments either maintain or increase overall performance.

▪ Migrate all web front ends to Azure.

▪ Reuse licenses, whenever possible.

▪ Minimize the administrative effort required to generate the internal reports from the website databases.

Security Requirements

Proseware hosts a database for a company named Contoso, Ltd. Currently, all of the employees at Contoso can access all of the data in the database.

Contoso plans to limit user access to the CWDU database so that customer service representatives can see only the data from the PersonalInfo table that relates to their own customers.

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NEW QUESTION: 77

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: (SHOW ANSWER)

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/create-and-store-column-master-keys-always-encrypted?view=sql-server-2017> Testlet 1 Overview Contoso, Ltd. is a national scientific research company that has sales, marketing, and research departments. Contoso has a main office in Dallas and more than 20 satellite offices across the United States. Some employees work off-site at customer locations. Contoso is expected to double in size during the next two years.

Existing Environment

The Microsoft SQL Server environment contains the servers configured as shown in the following table.

Server name	Role	Application name
SQL01	Online Transaction Processing (OLTP) primary database	One Sale
SQL02	A mirror of SQL01 and used for ad hoc reporting	One Report
SQL03	A data warehouse	One Data
Research01	A database server used by the research department	Research Gen II

Contoso currently uses SQL Server 2008 R2 on all of the database servers. SQL01 currently requires six cores and 50 GB of memory.

Once a day, database snapshots are taken on the mirror to provide ad hoc reporting and to load the data warehouse.

One report is used for ad hoc reporting by using the mirrored copy of the OLTP database.

Research Gen II is a Windows application that users currently access by using Remote Desktop.

Requirements

Business Goals

Contoso identifies the following business goals:

- Minimize the costs associated with purchasing hardware and software.
- Prevent any negative impact on performance when moving database platforms to the cloud.
- Audit user access to and query execution on all of the databases in the research department.

Planned changes

Contoso plans to implement the following changes:

- Upgrade SQL03 from SQL Server 2008 R2 to SQL Server 2014 on Windows Server 2012 R2.
- Migrate SQL01 and SQL02 to Infrastructure as a Service (IAAS) on SQL Server 2014.
- Leverage cloud services for a disaster recovery location and for high availability.
- Replace Research Gen II with a cloud-based application named One Research. The database for this application will be migrated to a cloud service.

Departmental Requirements

Senior research project leaders must be able to upload databases to the cloud. Initially, the databases will be less than 3 GB. Some databases may grow to 50 GB. The databases must be recoverable to any point during the past two weeks.

The research project leaders must monitor the performance of their databases. They must view statistics, such as query performance and overall database performance.

The marketing department plans to use cloud services to host web applications for marketing campaigns.

The databases for the web applications have the requirements shown in the following table.

Marketing campaign	Database size	Number of users	Recovery point objective (RPO)	High-availability requirement
Campaign 1	1 GB	10	2 weeks	Failover
Campaign 2	200 GB	100	2 weeks	Failover and read-only
Campaign 3	200 GB	100	3 weeks	Failover

Technical Requirements

Contoso identifies the following technical requirements:

- OLTP will be offloaded to Microsoft Azure virtual machines.

- The data for One Report must not be more than 15 minutes old.

- All of the databases for the OLTP system must be implemented on solid state drives (SSDs).

- A solution for the OLTP system must be created to provide disaster recovery and reporting between

- SQL01 and SQL02.

- All databases, except for the research and marketing databases, must be recoverable to any point

- during the last 30 days.

- A solution for the data warehouse system must be created to provide disaster recovery between SQL03

- and an Azure virtual machine named SQL04.

NEW QUESTION: 78

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 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 DACPAC file to export the database.
- B. Use the Azure Import/Export service.
- C. Use a database BACPAC file to export the database.
- 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: ([SHOW ANSWER](#))

NEW QUESTION: 79

You have a failover cluster deployed to Microsoft Azure virtual machines.

You plan to deploy a new Microsoft SQL instance to the cluster. The instance will host one database that has 10 file groups.

You provision 10 disks for the instance.

You need to recommend a storage solution that always provides the fastest possible reads for the database.

What should you include in the recommendation?

- A. Dynamic disks that use striping
- B. One file group per disk
- C. A Storage space
- D. Dynamic disks that use mirroring

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

Dynamic disks provide features that basic disks do not, such as the ability to create volumes that span multiple disks (spanned and striped volumes) and the ability to create fault-tolerant volumes (mirrored and RAID-5 volumes).

Disk striping can speed up operations that retrieve data from disk storage.

References: <https://docs.microsoft.com/en-us/windows/desktop/fileio/basic-and-dynamic-disks>

NEW QUESTION: 80

You need to implement a disaster recovery solution that meets the technical requirements. The solution must NOT require customers to modify their connection strings.

Which disaster recovery solution should you implement?

- A. Transactional Replication to Azure
- B. AlwaysOn Availability Groups
- C. Transaction Log Shipping
- D. Failover cluster instances

Answer: B ([LEAVE A REPLY](#))

Explanation/Reference:

Explanation:

Scenario: Technical requirements

Relecloud identifies the following technical requirements:

If ServerDB0 and ServerDB2 fail, AzDB01 must be able to respond to customer requests for data.

The Always On availability groups feature is a high-availability and disaster-recovery solution that provides an enterprise-level alternative to database mirroring. Introduced in SQL Server 2012 (11.x), Always On availability groups maximizes the availability of a set of user databases for an enterprise. An availability group supports a failover environment for a discrete set of user databases, known as availability databases, that fail over together. An availability group supports a set of read-write primary databases and one to eight sets of corresponding secondary databases.

Reference: <https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/always-on-availability-groups-sql-server?view=sql-server-2017>

NEW QUESTION: 81

You are designing a cloud architecture for an organizational data mart that has an uncompressed data size of 1.1TB. The data size is static. Users from Europe, Asia, and North America will access the data for reporting purposes.

You need to recommend a solution to provide local read access to the data for each region. The solution must minimize the amount of administrative overhead.

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

- A. Deploy the Microsoft SQL Server AlwaysOn template from Azure Marketplace.
- B. Provision a Microsoft Azure SQL data warehouse.
- C. Provision Microsoft SQL Server Enterprise on a Microsoft Azure virtual machine.
- D. Provision a Microsoft Azure SQL database.

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-designing-cloud-solutions-for-disaster-recovery#scenario-3-application-relocation-to-a-different-geography-without-data-loss-and-near-zero-downtime>

NEW QUESTION: 82

You plan to deploy a highly available Microsoft SQL Server solution in Microsoft Azure to two virtual machines. Each virtual machine contains an OS disk and four data disks. You plan to configure both virtual machines to share a single public IP address.

You need to recommend a highly availability solution to ensure that all the databases are available if a single server fails.

What should you recommend including in the solution?

- A. database mirroring
- B. Always On Failover Cluster Instances
- C. log shipping
- D. Always On availability groups

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 83

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 on 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 `az sql db create` command from Azure Cloud Shell.

Does this meet the goal?

- A. Yes
- B. No

Answer: ([SHOW ANSWER](#))

Explanation/Reference:

Explanation:

This would create an Azure SQL database.

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