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Applications must still have access to data from both internal and external applications keeping the data encrypted and secure at rest and in transit.

A disaster recovery strategy must be implemented for Tier 3 and Tier 6 through 8 allowing for failover in the case of a server going offline.

Selected internal applications must have the data hosted in single Microsoft Azure SQL Databases.

- Tier 1 internal applications on the premium P2 tier
- Tier 2 internal applications on the standard S4 tier

Reporting

Security and monitoring

Security

A method of managing multiple databases in the cloud at the same time is must be implemented to streamlining data management and limiting management access to only those requiring access.

Monitoring

Monitoring must be set up on every database. Contoso and partners must receive performance reports as part of contractual agreements.

Tiers 6 through 8 must have unexpected resource storage usage immediately reported to data engineers.

The Azure SQL Data Warehouse cache must be monitored when the database is being used. A dashboard monitoring key performance indicators (KPIs) indicated by traffic lights must be created and displayed based on the following metrics:

Metric	Description
A	Low cache hit %, high cache usage %
B	Low cache hit %, low cache usage %
C	High cache hit %, high cache usage %

Existing Data Protection and Security compliances require that all certificates and keys are internally managed in an on-premises storage.

You identify the following reporting requirements:

- Azure Data Warehouse must be used to gather and query data from multiple internal and external databases
- Azure Data Warehouse must be optimized to use data from a cache
- Reporting data aggregated for external partners must be stored in Azure Storage and be made available during regular business hours in the connecting regions
- Reporting strategies must be improved to real time or near real time reporting cadence to improve competitiveness and the general supply chain
- Tier 9 reporting must be moved to Event Hubs, queried, and persisted in the same Azure region as the company's main office

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- Tier 10 reporting data must be stored in Azure Blobs

Issues

Team members identify the following issues:

- Both internal and external client application run complex joins, equality searches and group-by clauses. Because some systems are managed externally, the queries will not be changed or optimized by Contoso.
- External partner organization data formats, types and schemas are controlled by the partner companies.
- Internal and external database development staff resources are primarily SQL developers familiar with the Transact-SQL language.
- Size and amount of data has led to applications and reporting solutions not performing at required speeds
- Tier 7 and 8 data access is constrained to single endpoints managed by partners for access
- The company maintains several legacy client applications. Data for these applications remains isolated from other applications. This has led to hundreds of databases being provisioned on a per application basis.

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 questions 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 need setup monitoring for tiers 6 through 8.

What should you configure?

- A. extended events for average storage percentage that emails data engineers
- B. an alert rule to monitor CPU percentage in databases that emails data engineers
- C. an alert rule to monitor CPU percentage in elastic pools that emails data engineers
- D. an alert rule to monitor storage percentage in databases that emails data engineers
- E. an alert rule to monitor storage percentage in elastic pools that emails data engineers

Correct Answer: E

Explanation:

Scenario:

Tiers 6 through 8 must have unexpected resource storage usage immediately reported to data engineers.

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Tier 3 and Tier 6 through Tier 8 applications must use database density on the same server and Elastic pools in a cost-effective manner.

QUESTION 2

HOTSPOT

You need set up the Azure Data Factory JSON definition for Tier 10 data.

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

NOTE: Each correct selection is worth one point.

Data factory component	Value					
Connector	<table><tr><td>connection string</td><td rowspan="4">V</td></tr><tr><td>linked service name string</td></tr><tr><td>gateway connection string</td></tr><tr><td>data store name string</td></tr></table>	connection string	V	linked service name string	gateway connection string	data store name string
connection string	V					
linked service name string						
gateway connection string						
data store name string						
Data movement activity	<table><tr><td>Azure SQL Data Warehouse</td><td rowspan="4">V</td></tr><tr><td>Azure Files</td></tr><tr><td>Azure Blob</td></tr><tr><td>Azure SQL Database</td></tr></table>	Azure SQL Data Warehouse	V	Azure Files	Azure Blob	Azure SQL Database
Azure SQL Data Warehouse	V					
Azure Files						
Azure Blob						
Azure SQL Database						

Correct Answer:

Data factory component	Value					
Connector	<table><tr><td>connection string</td><td rowspan="4">V</td></tr><tr><td>linked service name string</td></tr><tr><td>gateway connection string</td></tr><tr><td>data store name string</td></tr></table>	connection string	V	linked service name string	gateway connection string	data store name string
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Azure SQL Data Warehouse	V					
Azure Files						
Azure Blob						
Azure SQL Database						

QUESTION 3

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DRAG DROP

You need to set up access to Azure SQL Database for Tier 7 and Tier 8 partners.

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

Actions	Answer Area
Connect to the Database and use Azure PowerShell to create a database firewall rule	
Set the Allow Azure Services to Access Server to Disabled	
In ther Azure portal, create a database firewall rule	
In the Azure portal, create a server firewall rule	
Connect to the database and use Transact-SQL to create a database firewall rule	
Set the Allow Azure Services to Access Server setting to Enabled	

Correct Answer:

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Actions	Answer Area
Connect to the Database and use Azure PowerShell to create a database firewall rule	Set the Allow Azure Services to Access Server to Disabled
Set the Allow Azure Services to Access Server to Disabled	
In the Azure portal, create a database firewall rule	In the Azure portal, create a server firewall rule
In the Azure portal, create a server firewall rule	
Connect to the database and use Transact-SQL to create a database firewall rule	Connect to the database and use Transact-SQL to create a database firewall rule
Set the Allow Azure Services to Access Server setting to Enabled	

QUESTION 4

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 questions sets might have more than one correct solution, while others might not have a correct solution.

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You need to configure data encryption for external applications.

Solution:

1. Access the Always Encrypted Wizard in SQL Server Management Studio
2. Select the column to be encrypted
3. Set the encryption type to Randomized
4. Configure the master key to use the Windows Certificate Store
5. Validate configuration results and deploy the solution

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Explanation:

Use the Azure Key Vault, not the Windows Certificate Store, to store the master key.

Note:

The Master Key Configuration page is where you set up your CMK (Column Master Key) and

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