You plan to implement a dedicated SQL pool in Azure Synapse Analytics. You need to recommend a data security strategy.

Your solution must meet the following requirements:

* Query activity must be tracked for a specific database on the server.
* The audit log must be stored so that it can be streamed to multiple applications.
* The whole database must be encrypted at rest without having to change the application code.

Which three design elements should you recommend? Each answer presents part of the solution. Choose three.

Audit log destination: Event Hub

Transparent data encryption

Database-level auditing

Server-level auditing

Dynamic data masking

Audit log destination: Storage

Your answer is correct!

Database-level auditing tracks query activity and applies to one specific database on the server. An audit log destination of Event Hub will store the audit log in an event hub for streaming to multiple applications. Transparent data encryption (TDE) encrypts the whole database at rest without having to change the application code. Server-level auditing tracks query activity and applies to all databases on the server. An audit log destination of Storage will store the audit log in a blob data file. Enabling dynamic data masking will allow columns to be partially masked to non-privileged users.

You plan to implement dynamic data masking. You need to impersonate a database user named user1 to verify partial masking.

Which command should you use?

EXECUTE AS LOGIN = 'user1';

EXEC sp\_addrolemember 'db\_datareader', 'user1';

EXECUTE AS USER = 'user1';

CREATE USER user1 WITHOUT LOGIN;

Your answer is correct!

You should use the command EXECUTE AS USER = 'user1'; to impersonate a database user named user1. The command EXECUTE AS LOGIN = 'user1'; impersonates a login named user1 that is stored in the master database. The command CREATE USER user1 WITHOUT LOGIN; creates a user without requiring a login for authentication but does not impersonate the user. The command EXEC sp\_addrolemember 'db\_datareader', 'user1'; adds a user named user1 to a database role named db\_datareader but does not impersonate the user.

You plan to implement a stream processing solution by using Azure Event Hubs. You need to design a data streaming strategy. Your solution must:

* Store data automatically in near-real time in an Azure Data Lake.
* Minimize cost.

Which feature should you use in your design?

Capture

Partitions

Auto-inflate

Throughput units

Your answer is correct!

You can use the Event Hubs Capture feature to automatically store your data in near-real time in an Azure Data Lake or in an Azure Blob storage account. There are no administrative costs to run Event Hubs Capture. Throughput units are pre-purchased units of capacity. You can use the Auto-inflate feature to automatically scale the number of throughput units to meet your usage needs. You can define partitions to organize sequences of events sent to an event hub.

* You plan to implement a stream processing solution by using Azure Event Hubs. You need to design a capacity and scaling strategy. Your solution must:
  + Provide an efficient scaling mechanism to start small and scale up as you grow.
  + Automatically scale to the specified upper limit without throttling issues.

Which two features should you use in your design? Each answer presents part of the solution. Choose two.

Capture

Partitions

Auto-inflate

Throughput units

Your answer is correct!

You should use throughput units and the Auto-inflate feature. Throughput units are pre-purchased units of capacity that you can use to define the minimum capacity. You can use the Auto-inflate feature to automatically scale the number of throughput units. This feature will define the maximum capacity. You can use the Event Hubs Capture feature to automatically store your data in near-real time in an Azure Data Lake or an Azure Blob storage account. You can define partitions to organize sequences of events sent to an event hub.

1. You plan to implement a stream processing solution by using Azure Event Hubs. You need to configure capacity and scaling. Your solution must:
   * Use a minimum of 3 throughput units for capacity.
   * Use a maximum of 10 throughput units for capacity.
   * Scale automatically.

What should you do? Each answer presents part of the solution. Choose two.

Set the throughput units to 10.

Set the Auto-inflate maximum throughput units to 3.

Set the Auto-inflate maximum throughput units to 10.

Set the throughput units to 3.

Your answer is correct!

You should set the number of throughput units to 3 and the Auto-inflate maximum throughput units to 10. Throughput units are pre-purchased units of capacity that define the minimum capacity. You use the Auto-inflate feature to automatically scale the number of throughput units. This feature defines the maximum capacity.

1. You plan to implement a stream processing solution by using Azure Event Hubs. You need to recommend a partitioning strategy. Your solution must:
   * Provide three partitions.
   * Scale automatically.
   * Minimize cost.

What should you do? Each answer presents part of the solution. Choose three.

Select the Basic pricing tier.

Enable the Auto-inflate feature.

Set the throughput units to 3.

Set the partition count to 3.

Enable the Capture feature.

Select the Standard pricing tier.

Your answer is correct!

You should select the Standard pricing tier, enable the Auto-inflate feature, and set the partition count to 3. You use the Auto-inflate feature to automatically scale the number of throughput units to meet your usage needs. You can define partitions to organize sequences of events sent to an event hub. You can use the Event Hubs Capture feature to automatically store your data in near-real time in an Azure Blob storage account or an Azure Data Lake. Throughput units are pre-purchased units of capacity. The Basic pricing tier does not support the Capture or the Auto-inflate features.

1. You plan to implement a stream processing solution by using Azure Event Hubs. You need to configure partitioning. Your solution must provide 32 partitions and must minimize cost.

What should you do? Each answer presents part of the solution. Choose two.

Select the Standard pricing tier.

Set the Auto-inflate maximum throughput units to 32.

Set the partition count to 32 for the event hub namespace.

Set the partition count to 32 for the event hub.

Set the throughput units to 32.

Select the Basic pricing tier.

Your answer is correct!

You should select the Basic pricing tier and set the partition count to 32 for the event hub. You can define partitions to organize sequences of events sent to an event hub. Partitions are supported by the Basic pricing tier. You can use the Auto-inflate feature to automatically scale the number of throughput units to meet your usage needs. Throughput units are pre-purchased units of capacity.

1. You plan to implement a stream processing solution by using Azure Event Hubs. You need to implement an event retention strategy. Your solution must retain messages for seven days and must minimize cost.

What should you do? Each answer presents part of the solution. Choose two.

Select the Standard pricing tier.

Select the Basic pricing tier.

Set the message retention period to 7 for the event hub namespace.

Set the message retention period to 7 for the event hub.

Your answer is correct!

You should select the Standard pricing tier and set the message retention period to 7 for the event hub. Event hubs retain events for a configured retention time that applies across all partitions. For the Standard pricing tier, the maximum retention period is seven days. For the Basic pricing tier, the maximum retention period is one day.

1. You plan to implement a stream processing solution by using Azure Event Hubs. You need to recommend a security strategy. Your solution must meet the following requirements:
   * The authentication method must support OAuth 2.0 tokens.
   * The authorization type must provide fine-grained permission without expiry times.
   * Access tokens must not be stored with your code.

Which two options should you recommend? Each answer presents part of the solution. Choose two.

Azure Active Directory (Azure AD) authentication

Access Control Lists (ACLs)

Shared access signatures (SAS)

Role-based access control (RBAC)

Your answer is correct!

You should recommend Azure AD authentication and RBAC. Azure AD authenticates a security principal to return an OAuth 2.0 token. RBAC provides fine-grained permission control without expiry times. With Azure AD, you do not need to store the access tokens with your code and risk potential security vulnerabilities. A SAS provides limited delegated access to Event Hubs resources with expiry times. ACLs are not supported by Event Hubs.

You plan to implement an event streaming solution by using Azure Event Hubs. You need to store all events automatically in a blob data file in a storage account.

What should you enable?

Partitions

Throughput units

Capture

Auto-inflate

Your answer is correct!

You should enable the Capture feature. You can use the Capture feature in Event Hubs to automatically store your data in near-real time to Azure Blob Storage or Azure Data Lake Storage. Throughput units are pre-purchased units of capacity. You can use the auto-inflate feature to automatically scale the number of throughput units to meet your usage needs. You can define partitions to organize sequences of events sent to an event hub for performance reasons.

* You plan to implement an event streaming solution by using Azure Event Hubs. You need to recommend a partitioning strategy. Your solution must meet the following requirements:
  + The solution must provide 12 partitions.
  + The solution must scale manually.
  + The solution must minimize cost.

Which two options should you recommend? Each answer presents part of the solution. Choose two.

Disable auto-inflate.

Enable Event Hubs Capture.

Select the Basic pricing tier.

Set the partition count to 12.

Select the Standard pricing tier.

Set the throughput units to 12.

Your answer is correct!

You should recommend using the Basic pricing tier and setting the partition count to 12. You can optimize performance by defining partitions to organize sequences of events sent to an event hub. You can use the auto-inflate feature to automatically scale the number of throughput units to meet your usage needs, but the requirements specify that the solution must scale manually, and the Basic pricing tier does not support auto-inflate. You can use Event Hubs Capture to automatically store your data in near-real time to Azure Blob Storage or Azure Data Lake Storage, but the Basic pricing tier does not support Event Hubs Capture. Throughput units are pre-purchased units of capacity.

1. You plan to implement an event streaming solution by using Azure Event Hubs. You need to recommend a capacity and scaling strategy. Your solution must meet the following requirements:
   * The solution must support a minimum of 10 throughput units for capacity.
   * The solution must support a maximum of 12 throughput units for capacity.
   * The solution must scale manually.

Which two options should you recommend? Each answer presents part of the solution. Choose two.

Disable auto-inflate.

Set the throughput units to 10.

Set auto-inflate to 2.

Set the throughput units to 12.

Your answer is correct!

You should recommend setting throughput units to 12 and disabling auto-inflate. Throughput units are pre-purchased units of capacity and will define the capacity. You can use the auto-inflate feature to automatically scale the number of throughput units and will define the maximum capacity, but the requirements specify that the solution must scale manually.

1. You plan to implement an event streaming solution by using Azure Event Hubs. You need to improve performance by organizing sequences of events that will be sent to an event hub.

What should you enable?

Capture

Partitions

Throughput units

Auto-inflate

Your answer is correct!

You should enable partitions. You can define partitions to organize sequences of events sent to an event hub for performance reasons. Throughput units are pre-purchased units of capacity and will define the minimum capacity. You can use the auto-inflate feature to automatically scale the number of throughput units and define the maximum capacity. You can use Event Hubs Capture to automatically store your data in near-real time to Azure Blob Storage or Azure Data Lake Storage.

1. You plan to implement an event streaming solution by using Azure Event Hubs. You need to monitor the input and output of events through an event hub by using the Azure portal.

Which two options should you use? Each answer presents part of the solution. Choose two.

Configure the auto-inflate option.

Configure Event Hubs Capture.

Configure the Process data option.

Run queries against the input and output stream.

Your answer is correct!

You should use the Process data option and run queries against the input and output stream. You use Event Hubs Capture to automatically store your data in near-real time in Azure Blob Storage or Azure Data Lake Storage. You can use the auto-inflate feature to automatically scale the number of throughput units to meet your usage needs.

1. You plan to implement an event streaming solution by using Azure Event Hubs. You need to implement an event retention strategy. Your solution must provide retention for 24 hours and must minimize cost.

Which two options should you configure? Each answer presents part of the solution. Choose two.

Select the Standard pricing tier.

Select the Basic pricing tier.

Set message retention to 1 for the event hub.

Set message retention to 1 for the event hub namespace.

Your answer is correct!

You should select the Basic pricing tier and set message retention to 1 for the event hub. Event hubs retain events for a configured retention time that applies across all partitions. The maximum retention period for the Standard pricing tier is 7 days. The maximum retention period for the Basic pricing tier is 1 day.

1. You plan to design a monitoring solution for Azure Event Hubs. You need to recommend a destination for the diagnostic settings for monitoring. Your solution must meet the following requirements:
   * The diagnostic settings must be stored in a blob data file.
   * The retention period must be set for each setting.
   * The solution must minimize cost.

Which destination option should you recommend?

Send to Log Analytics workspace

Stream to an event hub

Send to partner solution

Archive to a storage account

Your answer is correct!

You should recommend the Archive to a storage account option. You can use an Azure Event Hubs namespace to store diagnostic settings for monitoring purposes. The Archive to storage account option will store the diagnostic settings in a blob data file for archiving. This allows you to set a retention period for each setting, and it is cost effective. The Send to Log Analytics workspace option stores the diagnostic settings in a repository that supports centralized reporting for multiple data factories across subscriptions. The Stream to an event hub option stores the diagnostic settings in a separate event hub for streaming to other applications. The Send to partner solution option sends the diagnostic settings to a partner organization solution which you can select in the Azure Marketplace.