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QUESTION 1

You have an Azure Stream Analytics job that receives input from an Azure IoT hub and sends the outputs to Azure Blob storage. The job has compatibility level 1.1 and six streaming units. You have the following query for the job.

```
SELECT COUNT(*) AS Count, TollBoothID
INTO BlobOutput
FROM IotHubInput
GROUP BY TumblingWindow(minute, 3), TollBoothID
```

You plan to increase the streaming unit count to 12.

You need to optimize the job to take advantage of the additional streaming units and increase the throughput.

Solution: You change the query to the following.

```
SELECT COUNT(*) AS Count, TollBoothID
INTO BlobOutput
FROM IotHubInput PARTITION BY PartitionID
GROUP BY TumblingWindow(minute, 3), TollBoothID, PartitionID
```

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Max number of Streaming Units with one step and with no partitions is 6.

Reference: https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-parallelization

QUESTION 2

DRAG DROP

You have an instance of Azure Time Series Insights and an Azure IoT hub that receives streaming telemetry from IoT devices.

You need to configure Time Series Insights to receive telemetry from the devices.

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

Select and Place:

Actions

Configure the Time Series Insights event source to connect to an existing IOT hub.

Create an Azure event hub.

Add a new Time Series Insights event source.

Increase the events retention to seven days for the built-in endpoints of the IoT hub.

Create a dedicated consumer group in the built-in events endpoints of the IoT hub.

Answer Area

Correct Answer:

Actions

Create an Azure event hub.

Increase the events retention to seven days for the built-in endpoints of the IoT hub.

Answer Area

Create a dedicated consumer group in the built-in events endpoints of the IoT hub.

Add a new Time Series Insights event source.

Configure the Time Series Insights event source to connect to an existing IOT hub.

Step 1: Create a dedicated consumer group..

Add a consumer group to your IoT hub.

Applications use consumer groups to pull data from Azure IoT Hub. To reliably read data from your IoT hub, provide a dedicated consumer group that\\'s used only by this Time Series Insights environment.

Step 2: Add a new Time Series Insights event source.

Add a new event source

Sign in to the Azure portal.

In the left menu, select All resources. Select your Time Series Insights environment.

Under Settings, select Event Sources, and then select Add.

In the New event source pane, for Event source name, enter a name that\'s unique to this Time Series Insights environment. For example, enter event-stream.

Step 3: Configure the Time Series event source to connect to an existing IOT hub

Step 4: For Source, select IoT Hub.

Step 5: Select a value for Import option:

If you already have an IoT hub in one of your subscriptions, select Use IoT Hub from available subscriptions. This option is the easiest approach.

Reference:

https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-how-to-add-an-event-source-iothub

QUESTION 3

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
Hub1	Azure IoT Hub
DPS1	Azure IoT Hub Device Provisioning service (DPS)
CA1	Certification authority (CA)

You create a group enrollment in DPS1 and enroll 100 IoT devices. Each device is issued a leaf certificate from CAT.

You need to deprovision a single IoT device from the group enrollment.

The solution must not affect the other devices.

Solution: You delete the device entry from the device registry of Hub1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 4

You have an Azure IoT solution that includes an Azure IoT hub.

You plan to deploy 10,000 IoT devices.

You need to validate the performance of the IoT solution while 10,000 concurrently connected devices stream telemetry. The solution must minimize effort.

What should you deploy?

A. an Azure IoT Device Simulation from Azure IoT Solution Accelerator

B. an Azure function, an IoT Hub device SDK, and a timer trigger

C. Azure IoT Central application and a template for the retail industry

D. an Azure IoT Edge gateway configured as a protocol translation gateway

Correct Answer: A

The IoT solution accelerators are complete, ready-to-deploy IoT solutions that implement common IoT scenarios. The scenarios include connected factory and device simulation.

Use the Device Simulation solution accelerator to run simulated devices that generate realistic telemetry. You can use this solution accelerator to test the behavior of the other solution accelerators or to test your own custom IoT solutions.

Reference:

https://docs.microsoft.com/en-us/azure/iot-accelerators/about-iot-accelerators

QUESTION 5

You plan to deploy Azure Time Series Insights.

What should you create on iothub1 before you deploy Time Series Insights?

A. a new message route

B. a new consumer group

C. a new shared access policy

D. an IP filter rule

Correct Answer: B

Create a dedicated consumer group in the IoT hub for the Time Series Insights environment to consume from. Each Time Series Insights event source must have its own dedicated consumer group that isn\'t shared with any other consumer. If

multiple readers consume events from the same consumer group, all readers are likely to exhibit failures.

Reference:

https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-how-toadd-an-event-source- iothub

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