

Microsoft

AZ-220 Exam

Microsoft Azure IoT Developer

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Version: 11.0

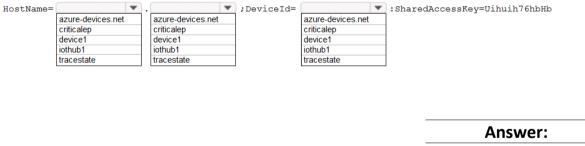
Question: 1

HOTSPOT

You create a new IoT device named device1 on iothub1. Device1 has a primary key of Uihuih76hbHb.

How should you complete the device connection string? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Explanation:



Box 1: iothub1
The Azure IoT hub is named iothub1.
Box 2: azure-devices.net
The format of the device connection string looks like:
HostName={YourIoTHubName}.azure-devices.net;DeviceId=MyNodeDevice;SharedAccessKey={YourSharedAccessKey}
Box 1: device1
Device1 has a primary key of Uihuih76hbHb.
Reference: https://docs.microsoft.com/en-us/azure/iot-hub/quickstart-control-device-dotnet
Question: 2
What should you do to identify the cause of the connectivity issues?
A. Send cloud-to-device messages to the IoT devices.
B. Use the heartbeat pattern to send messages from the IoT devices to iothub1.
C. Monitor the connection status of the device twin by using an Azure function.
D. Enable the collection of the Connections diagnostics logs and set up alerts for the connected devices count metric.
Answer: D
Explanation:

Page 4

Scenario: You discover connectivity issues between the IoT gateway devices and iothub1, which cause IoT devices to lose connectivity and messages.

To log device connection events and errors, turn on diagnostics for IoT Hub. We recommend turning on these logs as early as possible, because if diagnostic logs aren't enabled, when device disconnects occur, you won't have any information to troubleshoot the problem with.

Step 1:

- 1. Sign in to the Azure portal.
- 2. Browse to your IoT hub.
- 3. Select Diagnostics settings.
- 4. Select Turn on diagnostics.
- 5. Enable Connections logs to be collected.
- 6. For easier analysis, turn on Send to Log Analytics (see pricing).

Step 2:

Set up alerts for device disconnect at scale

To get alerts when devices disconnect, configure alerts on the Connected devices (preview) metric.

Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/iot-hub/iot-hub-troubleshoot-connectivity

Question: 3

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		
Explanation:	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-serie event-source- iothub	s-insights-how-to-add-an-	
Question: 4		
How should you complete the GROUP BY clause to meet the Streaming A	Analytics requirements?	
A. GROUP BY HoppingWindow(Second, 60, 30)		
B. GROUP BY TumblingWindow(Second, 30)		

C. GROUP BY SlidingWindow(Second, 30)	
D. GROUP BY SessionWindow	(Second, 30, 60)	
		Answer: B
Explanation:		
Scenario: You plan to use a 30 sensors.	-second period to calculate the average te	emperature reading of the
perform a function against the	re used to segment a data stream into dist em, such as the example below. The key di do not overlap, and an event cannot belor	ifferentiators of a Tumbling
InAnswers:		
· · ·	hop forward in time by a fixed period. It no overlap, so events can belong to more the	
Reference:		
https://docs.microsoft.com/e	n-us/azure/stream-analytics/stream-analy	rtics-window-functions
Question: 5		
HOTSPOT		
You need to use message enri	chment to add additional device informat	ion to messages sent from

the IoT gateway devices when the reported temperature exceeds a critical threshold.

How should you configure the enrich message values? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



Explanation:

Answer:

Answer Area



Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/iot-hub/iot-hub-message-enrichments-overview

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