AZ-220^{Q&As}

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Microsoft Azure IoT Developer

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QUESTION 1

You have 20 devices that connect to an Azure IoT hub. You open Azure Monitor as shown in the exhibit.

You discover that telemetry is not being received from five IoT devices.

You need to identify the names of the devices that are not generating telemetry and visualize the data.

What should you do first?

A. Add the Number of throttling errors metric and archive the logs to an Azure storage account.

B. Configure diagnostics for Routes and stream the logs to Azure Event Hubs.

C. Add the Telemetry messages sent metric and archive the logs to an Azure Storage account.

D. Configure diagnostics for Connections and send the logs to Azure Log Analytics.

Correct Answer: D

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.

1.

 Sign in to the Azure portal.

2.

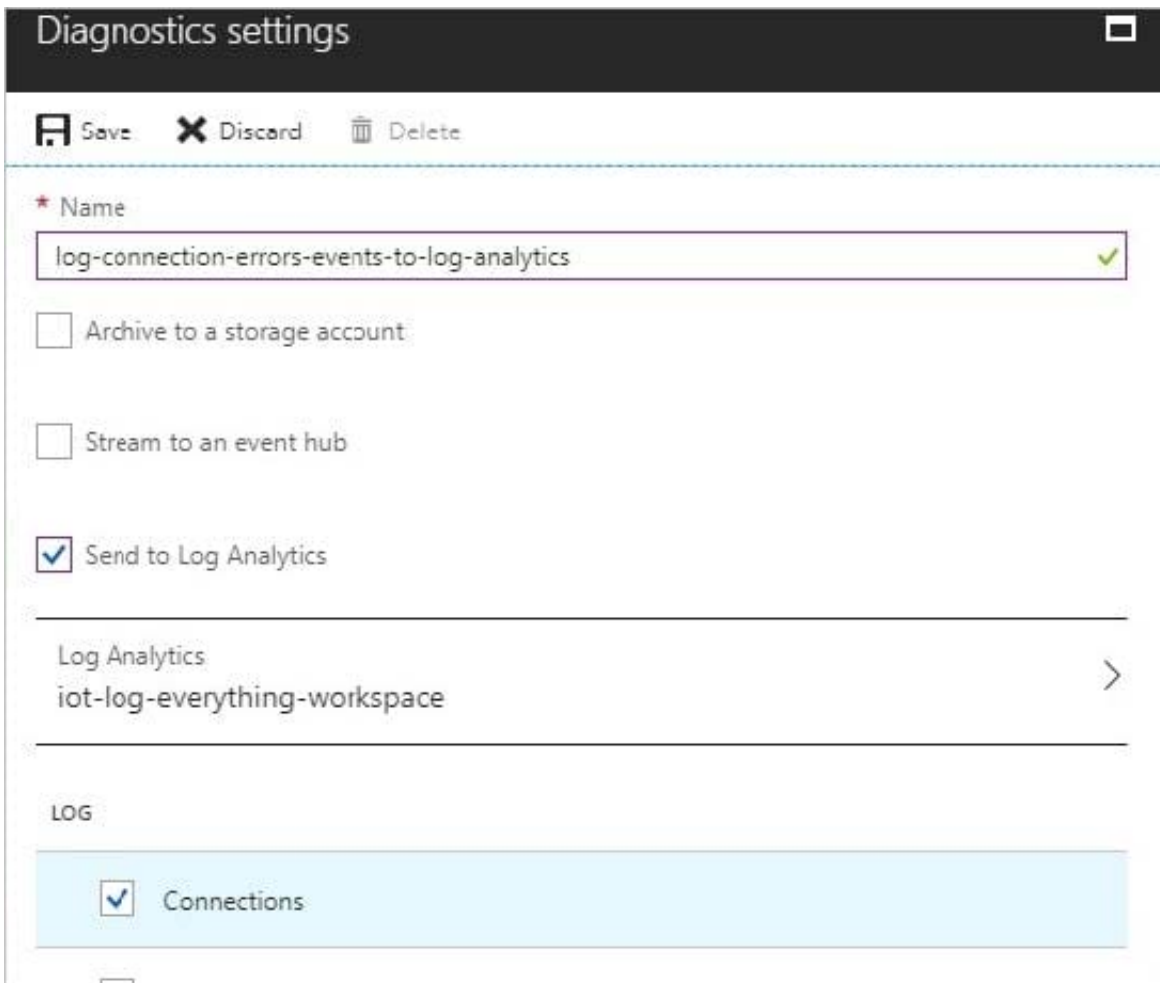 Browse to your IoT hub.

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

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

QUESTION 2

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 in the review screen.

You are developing a custom Azure IoT Edge module.

The module needs to identify the device ID of the local device.

Solution: You configure the module to read the device ID of the device twin.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Device twins are JSON documents that store device state information including metadata, configurations, and conditions. Azure IoT Hub maintains a device twin for each device that you connect to IoT Hub. Device identity properties. The root of the device twin JSON document contains the read-only properties from the corresponding device identity stored in the identity registry.

Reference: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-device-twins

QUESTION 3

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 4

You have an Azure IoT solution.

You plan to register an Azure IoT Edge device by using X.509 self-signed certificates.

You need to provide the thumbprint for the primary and secondary certificates.

Solution: You generate a 64-hex character SHA256 hash for the certificates.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 5

You have an Azure IoT hub.

You plan to implement IoT Hub events by using Azure Event Grid.

You need to send an email when the following events occur:

1.

Device Created

2.

Device Deleted

3.

Device Connected

4.

Device Disconnected

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 IoT hub, configure an event subscription that has API management as the Endpoint Type.

B. From the IoT hub, configure an event subscription that has Web Hook as the Endpoint Type.

C. Create an Azure logic app that has a Request trigger.

D. From the IoT hub, configure an event subscription that has Service Bus Queue as the Endpoint Type.

Correct Answer: BC

For non-telemetry events like DeviceConnected, DeviceDisconnected, DeviceCreated and DeviceDeleted, the Event Grid filtering can be used when creating the subscription.

C: Azure Event Grid enables you to react to events in IoT Hub by triggering actions in your downstream business applications. A trigger, such as a Request trigger, is a specific event that starts your logic app.

Reference: https://docs.microsoft.com/en-us/azure/event-grid/publish-iot-hub-events-to-logic-apps