

AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

DRAG DROP

You need to configure a digital twin to accept device telemetry data from the IoT hub

Which four 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 Azure Digital Twins Explorer.
- Create an event route.
- Create an Azure Digital Twins endpoint.
- Configure user access permissions.
- Deploy an Azure Digital Twins instance.
- Create a digital twin.
- Upload the digital twin model.
- Configure a system-assigned managed identity for Azure Digital Twins.

Answer Area

Correct Answer:

Actions

- Configure Azure Digital Twins Explorer.
- Create an event route.
- Create an Azure Digital Twins endpoint.
- Configure user access permissions.
-
-
-
-

Answer Area

- Deploy an Azure Digital Twins instance.
- Create a digital twin.
- Upload the digital twin model.
- Configure a system-assigned managed identity for Azure Digital Twins.

QUESTION 2

You need to enable telemetry message tracing through the entire IoT solution.

What should you do?

- A. Monitor device lifecycle events.
- B. Upload IoT device logs by using the File upload feature.
- C. Enable the DeviceTelemetry diagnostic log and stream the log data to an Azure event hub.
- D. Implement distributed tracing.

Correct Answer: D

IoT Hub is one of the first Azure services to support distributed tracing. As more Azure services support distributed tracing, you'll be able trace IoT messages throughout the Azure services involved in your solution.

Note:

Enabling distributed tracing for IoT Hub gives you the ability to:

Precisely monitor the flow of each message through IoT Hub using trace context. This trace context includes correlation IDs that allow you to correlate events from one component with events from another component. It can be applied for a

subset or all IoT device messages using device twin.

Automatically log the trace context to Azure Monitor diagnostic logs.

Measure and understand message flow and latency from devices to IoT Hub and routing endpoints.

Start considering how you want to implement distributed tracing for the non-Azure services in your IoT solution.

Reference:

<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-distributed-tracing>

QUESTION 3

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.

Correct Answer: D

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:

Sign in to the Azure portal.

Browse to your IoT hub.

Select Diagnostics settings.

Select Turn on diagnostics.

Enable Connections logs to be collected.

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 4

HOTSPOT

You have an Azure IoT solution that contains the Azure IoT Edge devices shown in the following table.

Name	Country	City
iotDevice1	UK	London
iotDevice2	France	Paris
iotDevice3	UK	Birmingham

You have the standard deployments and target conditions shown in the following table.

Deployment number	Country	City	Priority
1	UK	London	5
2	UK	London	3
3	France	Paris	1
4	UK	Birmingham	1
5	UK	London	1

You have the modules shown in the following table.

Module	Deployment
Module1	2,5
Module2	3,4
Module3	1

For each of the following statements, select Yes if the statement is true. Otherwise select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area		
Statements	Yes	No
If deployment 4 is deleted, Module2 will be removed from iotDevice3.	<input type="radio"/>	<input type="radio"/>
If deployment 1 is deleted, iotDevice1 will receive deployment 2.	<input type="radio"/>	<input type="radio"/>
If iotDevice3 moves to London, the device will receive Module1.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area		
Statements	Yes	No
If deployment 4 is deleted, Module2 will be removed from iotDevice3.	<input checked="" type="radio"/>	<input type="radio"/>
If deployment 1 is deleted, iotDevice1 will receive deployment 2.	<input checked="" type="radio"/>	<input type="radio"/>
If iotDevice3 moves to London, the device will receive Module1.	<input type="radio"/>	<input checked="" type="radio"/>

QUESTION 5

HOTSPOT

You have an Azure subscription that contains an Azure IoT hub named Hub1 and the IoT devices shown in the following table.

Name	Tag: "location"	Tag: "environment"	Date registered in Hub1
Device1	East	Test	January 15
Device2	East	Prod	March 12, 2022
Device3	East	Prod	April 1, 2022

You have the automatic device configuration shown in the following table.

Name	Device twin property	Date configuration added	Target condition	Priority
Conf1	Fan=1	January 1, 2022	tags.location = 'East' AND tags.environment = 'Test'	10
Conf2	Fan=2	March 1, 2022	tags.location = 'East' AND tags.environment = 'Prod'	10
Conf3	Fan=3	March 15, 2022	tags.location = 'East' AND tags.environment = 'Prod'	10
Conf4	Fan=4	February 22, 2022	tags.location = 'East' AND tags.environment = 'Test'	20

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Device1 will have a device twin property of Fan=4.	<input type="radio"/>	<input type="radio"/>
Device2 will have a device twin property of Fan=2.	<input type="radio"/>	<input type="radio"/>
Device3 will have a device twin property of Fan=3.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements

Device1 will have a device twin property of Fan=4.

Yes

No

Device2 will have a device twin property of Fan=2.

Device3 will have a device twin property of Fan=3.

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