AZ-220^{Q&As}

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Microsoft Azure IoT Developer

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QUESTION 1

DRAG DROP

You have an Azure IoT Central application that includes a Device Provisioning Service instance.

You need to connect IoT devices to the application without first registering the devices.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Flash unique credentials to the devices.

Obtain the credential.

Generate device credentials.

Associate the devices to a template and approve the connections.

Connect the devices to IoT Central.

Answer Area

Correct Answer:

Actions

Answer Area

Generate device credentials.

Flash unique credentials to the devices.

Connect the devices to IoT Central.

Associate the devices to a template and approve the connections.

Obtain the credential.

Step: With DPS (Device Provisioning Service) you can generate device credentials and configure the devices offline without registering the devices through IoT Central UI. Connect devices that use SAS tokens without registering

1.

Copy the IoT Central application\\'s group primary key

2.

Use the dps-keygen tool to generate the device SAS keys. Use the group primary key from the previous step. The device IDs must be lower-case: dps-keygen -mk: -di:

3.

 The OEM flashes each device with a device ID, a generated device SAS key, and the application ID scope value.

4.

 When you switch on a device, it first connects to DPS to retrieve its IoT Central registration information.

The device initially has a device status Unassociated on the Devices page and isn\'t assigned to a device template. On the Devices page, Migrate the device to the appropriate device template. Device provisioning is now complete, the device

status is now Provisioned, and the device can start sending data.

On the Administration > Device connection page, the Auto approve option controls whether you need to manually approve the device before it can start sending data.

Reference:

https://docs.microsoft.com/en-us/azure/iot-central/core/concepts-get-connected

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

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QUESTION 3

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 have an Azure IoT solution that includes an Azure IoT hub and an Azure IoT Edge device.

You plan to deploy 10 Bluetooth sensors. The sensors do not support MQTT, AMQP, or HTTPS.

You need to ensure that all the sensors appear in the IoT hub as a single device.

Solution: You configure the IoT Edge device as an IoT Edge identity translation gateway. You configure the sensors to connect to the device.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

In the protocol translation gateway pattern, only the IoT Edge gateway has an identity with IoT Hub. The translation module receives messages from downstream devices, translates them into a supported protocol, and then the IoT Edge device sends the messages on behalf of the downstream devices. All information looks like it is coming from one device, the gateway.

Reference: https://docs.microsoft.com/en-us/azure/iot-edge/iot-edge-as-gateway

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QUESTION 4

You have a Standard tier Azure IoT hub and a fleet of IoT devices.

The devices connect to the IoT hub by using either Message Queuing Telemetry Transport (MQTT) or Advanced Message Queuing Protocol (AMQP).

You need to send data to the IoT devices and each device must respond. Each device will require three minutes to process the data and respond.

Solution: You use cloud-to-device messages and watch the cloud-to-device feedback endpoint for successful acknowledgement.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

IoT Hub provides three options for device apps to expose functionality to a back-end app:

Twin\\'s desired properties for long-running commands intended to put the device into a certain desired state. For example, set the telemetry send interval to 30 minutes.

Direct methods for communications that require immediate confirmation of the result. Direct methods are often used for interactive control of devices such as turning on a fan.

Cloud-to-device messages for one-way notifications to the device app.

Reference:

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-c2d-guidance

QUESTION 5

DRAG DROP

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

Which four actions should you perform m 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. |

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