



AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

HOTSPOT

You have an Azure subscription that contains an Azure IoT hub, an Azure IoT Edge gateway, and 1,000 leaf devices. The leaf devices use a custom communication protocol that is NOT supported by the IoT hub.

You need to configure the gateway to meet the following requirements:

Minimize the number of connections between the gateway and the IoT hub.

Support addressing cloud-to-device messages to individual leaf devices.

How should you configure the gateway? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Gateway pattern:

	▼
Identity translation	
Protocol translation	
Transparent gateway	

Connection protocol:

	▼
Advanced Message Queuing Protocol (AMQP)	
Hypertext Transfer Protocol Secure (HTTPS)	

Correct Answer:



Answer Area

Gateway pattern: ▼

Identity translation
Protocol translation
Transparent gateway

Connection protocol: ▼

Advanced Message Queuing Protocol (AMQP)
Hypertext Transfer Protocol Secure (HTTPS)

Box 1: Protocol translation

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.

Box 2: Advanced MessageQueuing Protocol (AMQP)

Connection multiplexing - All devices connecting to IoT Hub through an IoT Edge gateway can use the same underlying connection. This multiplexing capability requires that the IoT Edge gateway uses AMQP as its upstream protocol.

Reference:

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

QUESTION 2

DRAG DROP

You have an Azure IoT Central application.

You need to connect IoT devices that use SAS tokens 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.

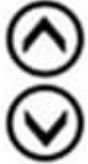
Select and Place:



Actions

Answer Area

- Generate device SAS keys.
- Obtain the group primary key.
- Flash unique credentials to the devices.
- Associate the devices to a template and approve the connections.
- Connect the devices to IoT Central.



Correct Answer:

Actions

Answer Area

-
-
-
-
-

- Obtain the group primary key.
- Generate device SAS keys.
- Flash unique credentials to the devices.
- Connect the devices to IoT Central.
- Associate the devices to a template and approve the connections.



QUESTION 3

HOTSPOT



You have an Azure IoT hub and three Azure IoT Edge devices. The device twin code for each device is shown in the following table.

Name	Device twin code fragment
Device1	<pre>"tags": { "office": "Seattle1" },</pre>
Device2	<pre>"tags": { "office": "Seattle2" },</pre>
Device3	<pre>"tags": { "office": "London" },</pre>

A standard automatic deployment is already applied.

You have three layered deployments. The deployment code for each deployment is shown in the following table.



Name	Deployment code
Deployment1	<pre>{ "id": "deploy1", "priority": 90, "targetCondition": " tags.office='Seattle1' OR tags.office='Seattle2' ", ... "SedgeAgent": { "properties.desired.modules.MyModule1": { ... } } }</pre>
Deployment2	<pre>{ "id": "deploy2", "priority": 80, "targetCondition": " tags.office='Seattle1' OR tags.office='Seattle2' OR tags.office='London' ", ... "SedgeAgent": { "properties.desired.modules.MyModule1": { ... } } }</pre>
Deployment3	<pre>{ "id": "deploy3", "priority": 70, "targetCondition": " tags.office='London' ", ... "SedgeAgent": { "properties.desired.modules.MyModule1": { ... }, "properties.desired.modules.MyModule2": { ... } } }</pre>

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 routes messages to <code>/messages/modules/MyModule1/outputs/seattle2</code> .	<input type="radio"/>	<input type="radio"/>
Device2 has the <code>MyModule1B</code> route deployed.	<input type="radio"/>	<input type="radio"/>
Device3 has the <code>MyModule2</code> route deployed.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
Device1 routes messages to <code>/messages/modules/MyModule1/outputs/seattle2</code> .	<input type="radio"/>	<input checked="" type="radio"/>
Device2 has the <code>MyModule1B</code> route deployed.	<input type="radio"/>	<input checked="" type="radio"/>
Device3 has the <code>MyModule2</code> route deployed.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 4

You have an existing Azure IoT hub.

You use IoT Hub jobs to schedule long running tasks on connected devices.

Which two operations do the IoT Hub jobs support directly? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Trigger Azure functions.
- B. Invoke direct methods.
- C. Update desired properties.
- D. Send cloud-to-device messages.



E. Disable IoT device registry entries.

Correct Answer: BC

Consider using jobs when you need to schedule and track progress any of the following activities on a set of devices:

1.

Invoke direct methods

2.

Update desired properties

3.

Update tags

Reference: <https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-jobs>

QUESTION 5

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 20 IoT devices deployed across two floors of a building. The devices on the first floor must be set to 60 degrees. The devices on the second floor must be set to 80 degrees.

The device twins are configured to use a tag that identifies the floor on which the twins are located.

You create the following automatic configuration for the devices on the first floor.

```
{
  "id": "first_floor_devices",
  "schemaVersion": null,
  "labels": {
    "Version": "1"
  },
  "content": {
    "deviceContent": {
      "properties.desired.ac": {
        "temperature": 60
      }
    }
  },
  "targetCondition": "tags.floor-'first'",
  "createdTimeUtc": "2020-12-08T04:06:56.651Z",
  "lastUpdatedTimeUtc": "2020-12-08T04:06:56.651Z",
  "priority": 1,
  ...
}
```




You create the following automatic configuration for the devices on the second floor.

```
{
  "id": "second_floor_devices",
  "schemaVersion": null,
  "labels": {
    "Version": "1"
  },
  "content": {
    "deviceContent": {
      "properties.desired.ac": {
        "temperature": 80
      }
    }
  },
  "targetCondition": "*",
  "createdTimeUtc": "2020-12-08T04:11:08.561Z",
  "lastUpdatedTimeUtc": "2020-12-09T18:50:55.070Z",
  "priority": 10,
  ...
}
```

The IoT devices on the first floor report that the temperature is set to 80 degrees.

You need to ensure that the first-floor devices are set to the correct temperature.

Solution: In the automatic configuration for the second-floor devices, you set targetCondition to "tags.floor=\\'second\\'".

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Reference: <https://docs.microsoft.com/en-us/azure/iot-edge/module-deployment-monitoring?view=iotedge-2020-11>
<https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-automatic-device-management-cli>

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