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QUESTION 1

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 Version to 2.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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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QUESTION 2

You have an Azure IoT solution that includes an Azure IoT Hub named Hub1 and an Azure IoT Edge device named Edge1. Edge1 connects to Hub1.

You need to deploy a temperature module to Edge1.

What should you do?

A. From the Azure portal, navigate to Hub1 and select IoT Edge. Select Edge1, and then select Manage Child Devices. From a Bash prompt, run the following command: az iot edge set-modules -device-id Edge1 -hub-name Hub1 -content C:\deploymentMan1.json

B. Create an IoT Edge deployment manifest that specifies the temperature module and the route to $upstream. From a

Bash prompt, run the following command: az iot hub monitor-events-device-id Edge1 -hub-name Hub1

C. From the Azure portal, navigate to Hub1 and select IoT Edge. Select Edge1, select Device Twin, and then set the deployment manifest as a desired property. From a Bash prompt, run the following command: az iot hub monitor-events-device-id Edge1 -hub-name Hub1

D. Create an IoT Edge deployment manifest that specifies the temperature module and the route to $upstream. From a Bash prompt, run the following command: az iot edge set-modules -device-id Edge1 -hub-name Hub1 -content C:\deploymentMan1.json

Correct Answer: D

You deploy modules to your device by applying the deployment manifest that you configured with the module information.

Change directories into the folder where your deployment manifest is saved. If you used one of the VS Code IoT Edge templates, use the deployment.json file in the config folder of your solution directory and not the deployment.template.json

file.

Use the following command to apply the configuration to an IoT Edge device:

az iot edge set-modules --device-id [device id] --hub-name [hub name] -content [file path]

Reference:

https://docs.microsoft.com/en-us/azure/iot-edge/how-to-deploy-modules-cli

QUESTION 3

You have an Azure IoT hub that has a hostname of contoso-hub.azure-devices.net and an MCU-based IoT device named Device1. Device1 does NOT support Azure IoT SDKs.

You plan to connect Device1 to the IoT hub by using the Message Queuing Telemetry Transport (MQTT) protocol and to authenticate by using X.509 certificates.

You need to ensure that Device1 can authenticate to the IoT hub.

What should you do?

A. Create an Azure key vault and enable the encryption of data at rest for the IoT hub by using a customer-managed key.

B. Enable a hardware security module (HSM) on Device1.

C. From the Azure portal, create an IoT Hub Device Provisioning Service (DPS) instance and add a certificate enrollment for Device1.

D. Add the DigiCert Baltimore Root Certificate to Device1.

Correct Answer: D

The connection to Azure IoT Hub with MQTT is secured using TLS.

The Azure IoT Hub library requires the provisioning of the following certificates and a private key for a successful TLS connection:

1.

 Baltimore CyberTrust Root certificate - Server certificate, used to verify the server\\'s certificate while connecting.

2.

 Device certificate - generated by the procedures described in Creating Azure IoT Hub certificates , used by Azure IoT Hub to authenticate the device.

3.

 Private key of the device.

Reference: https://developer.nordicsemi.com/nRF_Connect_SDK/doc/latest/nrf/include/net/azure_iot_hub.html

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QUESTION 4

You create an Azure IoT hub by running the following command.

az iot hub create --resource-group MyResourceGroup --name MyIotHub --sku B1 --location westus --partition-count 4

What does MyIotHub support?

A. Device Provisioning Service

B. cloud-to-device messaging

C. Azure IoT Edge

D. device twins

Correct Answer: A

The Device Provisioning Service is included in the Basic Tiers (such as B1).

Incorrect Answers:

B, C, D: The Standard tier is needed for cloud-to-device messaging, Azure IoT Edge, and device twins.

Reference:

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-scaling

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QUESTION 5

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 question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have devices that connect to an Azure IoT hub. Each device has a fixed GPS location that includes latitude and longitude.

You discover that a device entry in the identity registry of the IoT hub is missing the GPS location.

You need to configure the GPS location for the device entry. The solution must prevent the changes from being propagated to the physical device.

Solution: You use an Azure policy to apply tags to a resource group.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead add the desired properties to the device twin.

Note: Device Twins are used to synchronize state between an IoT solution\'s cloud service and its devices. Each device\'s twin exposes a set of desired properties and reported properties. The cloud service populates the desired properties with values it wishes to send to the device. When a device connects it requests and/or subscribes for its desired properties and acts on them.

Reference: https://azure.microsoft.com/sv-se/blog/deep-dive-into-azure-iot-hub-notifications-and-device-twin/

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