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QUESTION 1

DRAG DROP

You deploy an Azure IoT hub.

You need to demonstrate that the IoT hub can receive messages from a device.

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

Get a service primary key for the IoT hub.

Configure the Device Provisioning Service on the IoT hub.

Configure the device connection string on a device client.

Register a device in IoT Hub.

Trigger a new send event from a device client.

Answer Area

Correct Answer:

Actions

Get a service primary key for the IoT hub.

Configure the Device Provisioning Service on the IoT hub.

Answer Area

Register a device in IoT Hub.

Configure the device connection string on a device client.

Trigger a new send event from a device client.

Step 1: Register a device in IoT Hub

Before you can use your IoT devices with Azure IoT Edge, you must register them with your IoT hub. Once a device is registered, you can retrieve a connection string to set up your device for IoT Edge workloads.

Step 2: Configure the device connection string on a device client. When you\'re ready to set up your device, you need the connection string that links your physical device with its identity in the IoT hub.

Step 3: Trigger a new send event from a device client.

QUESTION 2

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
Hub1	Azure IoT Hub
DPS1	Azure IoT Hub Device Provisioning service (DPS)
CA1	Certification authority (CA)

You create a group enrollment in DPS1 and enroll 100 IoT devices. Each device is issued a leaf certificate from CAT. You need to deprovision a single IoT device from the group enrollment. The solution must not affect the other devices.

Solution: Solution: You create a disabled individual enrollment by using the X.509 certificate of CA1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 3

You have an Azure IoT solution that contains an Azure IoT hub and 100 IoT devices. The devices run Windows Server 2016.

You need to deploy the Azure Defender for IoT C#-based security agent to the devices.

What should you do first?

A. On the devices, initialize Trusted Platform Module (TPM).

B. From the IoT hub, create a system-assigned managed identity.

C. From the IoT hub, create a security module for the devices.

D. On the devices, set the PowerShell execution policy to Restricted.

Correct Answer: C

The IoT Edge security manager provides a safe framework for security service extensions through host-level modules. The IoT Edge security manager include Ensure safe operation of client agents for services including Device Update for IoT Hub and Azure Defender for IoT.

Reference: https://docs.microsoft.com/en-us/azure/iot-edge/iot-edge-security-manager

QUESTION 4

You need to recommend a solution to keep device properties synced to IoT Hub. The solution must minimize data loss caused by the connectivity issues.

What should you include in the recommendation?

A. Azure Event Grid

B. a cloud-to-device message

C. IoT Hub device twins

D. the IoT Hub direct method

Correct Answer: C

Scenario: You discover connectivity issues between the IoT gateway devices and iothub1, which cause IoT devices to lose connectivity and messages.

To synchronize state information between a device and an IoT hub, you use device twins. A device twin is a JSON document, associated with a specific device, and stored by IoT Hub in the cloud where you can query them. A device twin contains desired properties, reported properties, and tags.

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

QUESTION 5

You develop a custom Azure IoT Edge module named temperature-module.

You publish temperature-module to a private container registry named mycr.azurecr.io

You need to build a deployment manifest for the IoT Edge device that will run temperature-module.

Which three container images should you define in the manifest? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. mcr.microsoft.com/azureiotedge-simulated-temperature-sensor:1.0

B. mcr.microsoft.com/azureiotedge-agent:1.0

C. mcr.microsoft.com/iotedgedev:2.0

D. mycr.azurecr.io/temperature-module:latest

E. mcr.microsoft.com/azureiotedge-hub:1.0

Correct Answer: BDE

Each IoT Edge device runs at least two modules: $edgeAgent and $edgeHub, which are part of the IoT Edge runtime. IoT Edge device can run multiple additional modules for any number of processes. Use a deployment manifest to tell your device which modules to install and how to configure them to work together.

Reference: https://docs.microsoft.com/en-us/azure/iot-edge/module-composition

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