AZ-220 Q&As

Microsoft Azure IoT Developer

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QUESTION 1

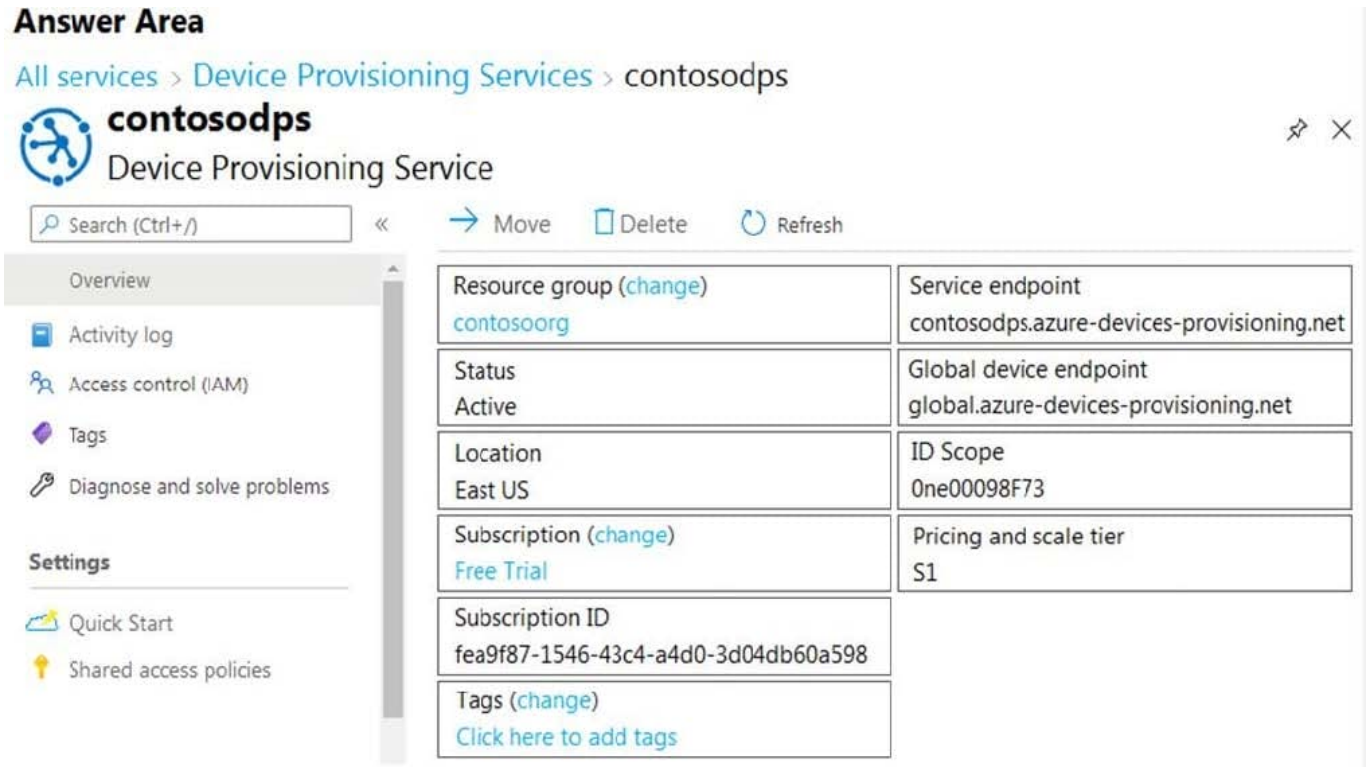
HOTSPOT

You are writing code to provision IoT devices by using the Device Provisioning Service.

Which two details from the Overview blade of the Device Provisioning Service are required to provision a new IoT client device? To answer, select the appropriate detail in the answer area.

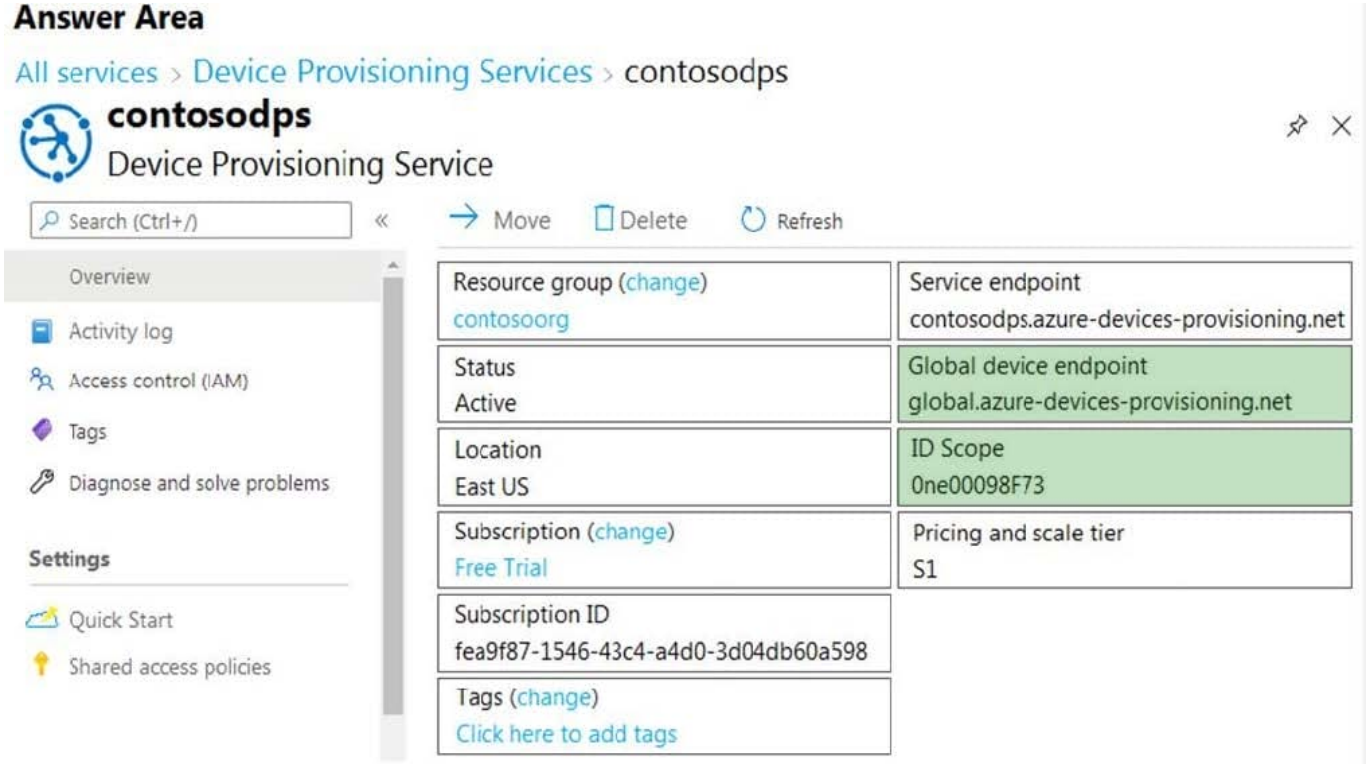
NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:

Answer Area



Box 1: ID Scope

In the Azure portal, select the Overview blade for your Device Provisioning service and copy the ID Scope value. The ID Scope is generated by the service and guarantees uniqueness. It is immutable and used to uniquely identify the

registration IDs.

Box 2: Global device endpoint

The global_prov_uri variable, which allows the IoT Hub client registration API IoTHubClient_LL_CreateFromDeviceAuth to connect with the designated Device Provisioning Service instance.

Example code:

static const char* global_prov_uri = "global.azure-devices-provisioning.net";

static const char* id_scope = "[ID Scope]";

Reference:

https://docs.microsoft.com/en-us/azure/iot-dps/tutorial-set-up-device

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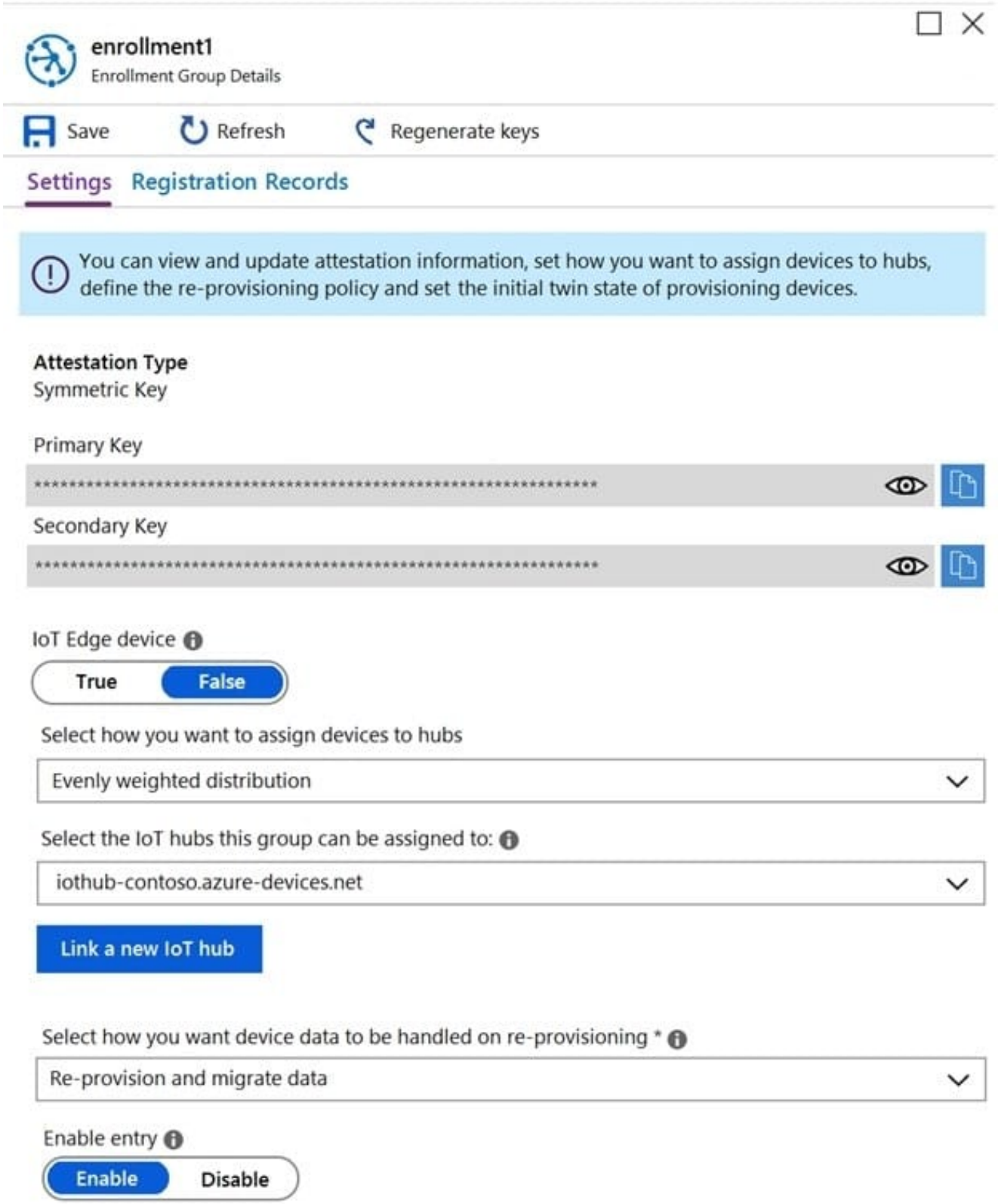
QUESTION 2

From the Device Provisioning Service, you create an enrollment as shown in the exhibit.



You need to deploy a new IoT device.

What should you use as the device identity during attestation?

A. a self-signed X.509 certificate

B. the random string of alphanumeric characters

C. the HMAC-SHA256 hash of the device\\'s registration ID

D. the endorsement key of the device\\'s Trusted Platform Module (TPM)

Correct Answer: C

Each device uses its derived device key with your unique registration ID to perform symmetric key attestation with the enrollment during provisioning. To generate the device key, use the key you copied from your DPS enrollment to compute an HMAC-SHA256 of the unique registration ID for the device and convert the result into Base64 format.

Reference: https://docs.microsoft.com/en-us/azure/iot-edge/how-to-auto-provision-symmetric-keys

QUESTION 3

You have an Azure IoT Central application.

You need to connect an IoT device to the application.

Which two settings do you require in IoT Central to configure the device? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Group SAS Primary Key

B. the IoT hub name

C. Scope ID

D. Application Name

E. Device ID

Correct Answer: CE

In your Azure IoT Central application, add a real device to the device template

1.

On the Devices page, select the Environmental sensor device template.

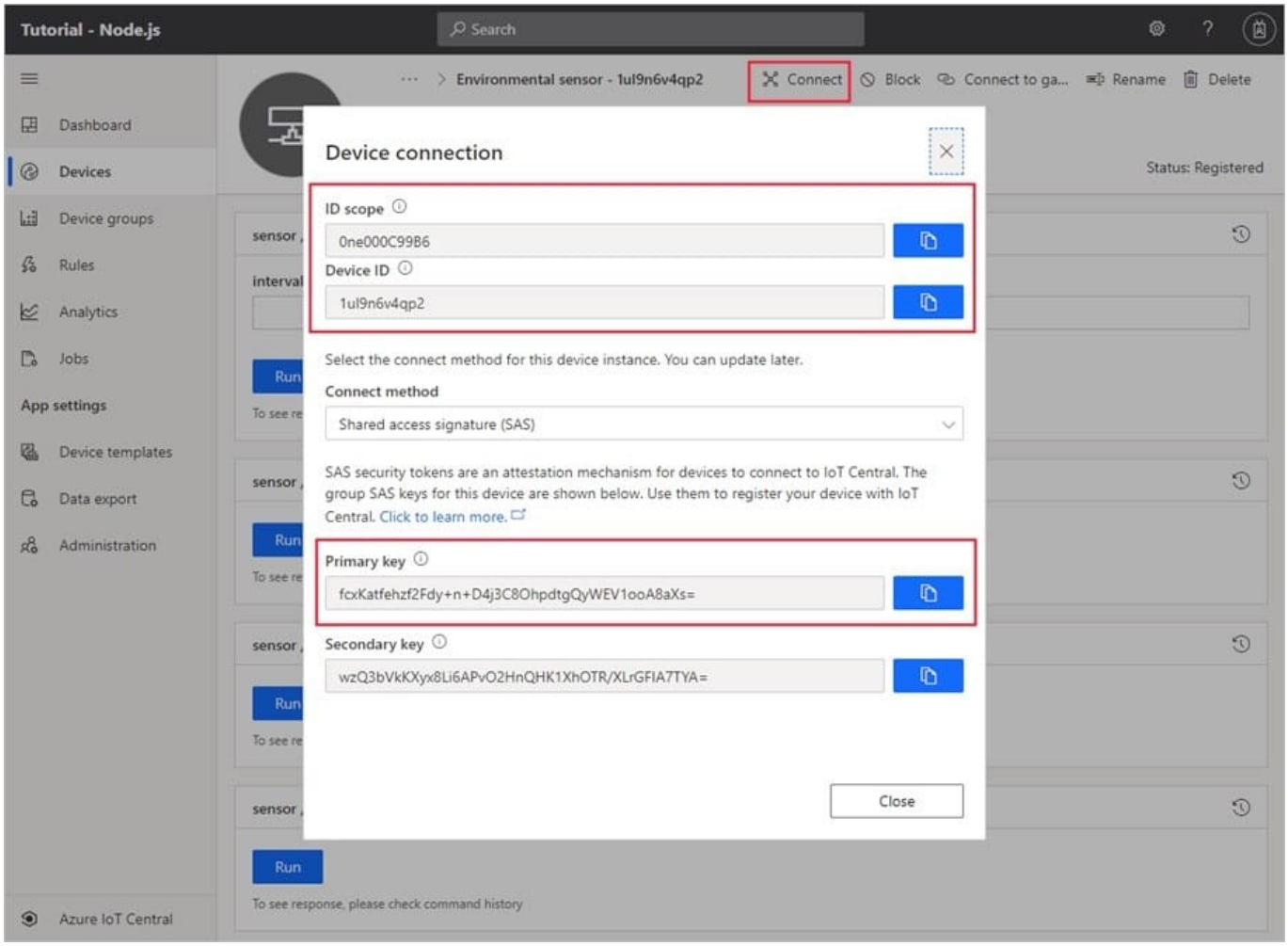
2.

Select + New.

3.

Make sure that Simulated is Off. Then select Create.

Click on the device name, and then select Connect. Make a note of the device connection information on the Device Connection page - ID scope, Device ID, and Primary key. You need these values when you create your device code:



Reference: https://docs.microsoft.com/bs-cyrl-ba/azure/iot-central/core/tutorial-connect-device-python

QUESTION 4

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 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 schedule an IoT Hub job to update the twin tags and you query for job progress.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead update the twin desired property and check the corresponding reported property.

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

1.

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.

2.

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.

3.

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

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

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