



AZ-220^{Q&As}

Microsoft Azure IoT Developer

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**QUESTION 1**

You have an Azure IoT hub that is being taken from prototype to production.

You plan to connect IoT devices to the IoT hub. The devices have hardware security modules (HSMs).

You need to use the most secure authentication method between the devices and the IoT hub. Company policy prohibits the use of internally generated certificates.

Which authentication method should you use?

- A. an X.509 self-signed certificate
- B. a certificate thumbprint
- C. a symmetric key
- D. An X.509 certificate signed by a root certification authority (CA).

Correct Answer: D

Purchase X.509 certificates from a root certificate authority (CA). This method is recommended for production environments.

The hardware security module, or HSM, is used for secure, hardware-based storage of device secrets, and is the most secure form of secret storage. Both X.509 certificates and SAS tokens can be stored in the HSM

Reference:

<https://docs.microsoft.com/en-us/azure/iot-dps/concepts-security>

QUESTION 2

You have an Azure IoT hub that uses a Device Provisioning Service instance to automate the deployment of Azure IoT Edge devices.

The IoT Edge devices have a Trusted Platform Module (TPM) 2.0 chip.

From the Azure portal, you plan to add an individual enrollment to the Device Provisioning Service that will use the TPM of the IoT Edge devices as the attestation mechanism.

Which detail should you obtain before you can create the enrollment?

- A. the scope ID and the Device Provisioning Service endpoint
- B. the primary key of the Device Provisioning Service shared access policy and the global device endpoint
- C. the X.509 device certificate and the certificate chain
- D. the endorsement key and the registration ID

Correct Answer: D



The TPM simulator's Registration ID and the Endorsement key, are used when you create an individual enrollment for your device.

Reference: <https://docs.microsoft.com/en-us/azure/iot-edge/how-to-auto-provision-simulated-device-linux>

QUESTION 3

You have an Azure IoT Edge device.

You need to modify the credentials used to access the container registry.

What should you modify?

- A. the \$edgeHub module twin
- B. the IoT Edge module
- C. the \$edgeAgent module twin
- D. the Azure IoT Hub device twin

Correct Answer: C

The module twin for the IoT Edge agent is called \$edgeAgent and coordinates the communications between the IoT Edge agent running on a device and IoT Hub. The desired properties are set when applying a deployment manifest on a specific device as part of a single-device or at-scale deployment.

These properties include: `runtime.settings.registryCredentials.{registryId}.username`
`runtime.settings.registryCredentials.registryId}.password`

Reference: <https://docs.microsoft.com/en-us/azure/iot-edge/module-edgeagent-edgehub>

QUESTION 4

You have IoT devices that connect to an Azure IoT hub.

From IoT Hub, you create an Event subscription to be notified when devices are registered to IoT Hub. You select webhook endpoint as a handler for the Event subscription.

Which two types of Event Grid messages will be received by the webhook? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Microsoft.Devices.DeviceCreated
- B. Microsoft.Resources.ResourceWriteSuccess
- C. Microsoft.EventGrid.SubscriptionValidationEvent
- D. Microsoft.Devices.DeviceConnected

Correct Answer: AC



Microsoft.Devices.DeviceCreated: Published when a device is registered to an IoT hub.

The first thing you want to do is handle Microsoft.EventGrid.SubscriptionValidationEvent events. Every time someone subscribes to an event, Event Grid sends a validation event to the endpoint with a validationCode in the data payload.

Reference: <https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-event-grid> <https://docs.microsoft.com/en-us/azure/event-grid/receive-events>

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: You delete the device entry from the device registry of Hub1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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