AZ-220 Q&As

Microsoft Azure IoT Developer

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QUESTION 1

You have an Azure IoT solution that includes an Azure IoT hub, 100 Azure IoT Edge devices, and 500 leaf devices.

You need to perform a key rotation across the devices.

Which three types of entities should you update? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. the $edgeHub module identity

B. the $edgeAgent module identity

C. the leaf module identities

D. the IoT Edge device identities

E. the iothubowner policy credentials

F. the leaf device identities

Correct Answer: ADF

To get authorization to connect to IoT Hub, devices and services must send security tokens signed with either a shared access or symmetric key. These keys are stored with a device identity in the identity registry.

An IoT Hub identity registry can be accessed like a dictionary, by using the deviceId or moduleId as the key.

Reference:

https://docs.microsoft.com/bs-latn-ba/azure/iot-dps/how-to-control-access

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-identity-registry

QUESTION 2

You have an Azure IoT hub that receives messages from an IoT device. The messages are serialized as Protobuf.

You need the IoT hub to route the messages.

What should you do first?

A. From the Azure portal, add desired properties to the device twin.

B. Configure the IoT device to add application properties to the messages.

C. From the Azure portal, configure the IoT hub to add message enrichments.

D. Configure the IoT device to add ASCII-encoded properties to the body of the messages.

Correct Answer: A

Device twins store device-related information that:

Device and back ends can use to synchronize device conditions and configuration.

The solution back end can use to query and target long-running operations.

Desired properties. Used along with reported properties to synchronize device configuration or conditions. The solution back end can set desired properties, and the device app can read them. The device app can also receive notifications of

changes in the desired properties.

Incorrect Answers:

C: Message enrichments describes the ability of Azure IoT Hub to stamp messages with additional information before the messages are sent to the designated endpoint. One reason to use message enrichments is to include data that can be used to simplify downstream processing

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

QUESTION 3

You have an Azure IoT solution.

You plan to register an Azure loT Edge device by using X.509 self-signed certificates.

You need to provide the thumbprint for the primary and secondary certificates.

Solution: You generate a 96-hex character SHA384 hash for the certificates.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 4

You have an Azure IoT solution.

You need to create a digital twin model.

Which language should you use?

A. XHTML

B. DTDL

C. YAML

D. XML

Correct Answer: B

Azure Digital Twins models are represented in the JSON-LD-based Digital Twin Definition Language (DTDL).

Reference: https://docs.microsoft.com/en-us/azure/digital-twins/concepts-models

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

You are developing a custom Azure IoT Edge module.

The module needs to identify the device ID of the local device.

Solution: You configure the module to read the IOTEDGE_DEVICEID environment variable.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The Azure ID of the current device is available on the IOTEDGE_DEVICEID environment variable.

Instead read the device ID of the device twin.

Note: Device twins are JSON documents that store device state information including metadata, configurations, and conditions. Azure IoT Hub maintains a device twin for each device that you connect to IoT Hub.

Device identity properties. The root of the device twin JSON document contains the read-only properties from the corresponding device identity stored in the identity registry.

Reference:

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