



Microsoft Azure IoT Developer

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QUESTION 1

You plan to deploy Azure Time Series Insights.

What should you create on iothub1 before you deploy Time Series Insights?

A. a new message route

B. a new consumer group

C. a new shared access policy

D. an IP filter rule

Correct Answer: B

Create a dedicated consumer group in the IoT hub for the Time Series Insights environment to consume from. Each Time Series Insights event source must have its own dedicated consumer group that isn\\'t shared with any other consumer. If

multiple readers consume events from the same consumer group, all readers are likely to exhibit failures.

Reference:

https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-how-toadd-an-event-source- iothub

QUESTION 2

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 an Azure IoT solution that includes an Azure IoT hub and an Azure IoT Edge device.

You plan to deploy 10 Bluetooth sensors. The sensors do not support MQTT, AMQP, or HTTPS.

You need to ensure that all the sensors appear in the IoT hub as a single device.

Solution: You configure the IoT Edge device as an IoT Edge identity translation gateway. You configure the sensors to connect to the device.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

In the protocol translation gateway pattern, only the IoT Edge gateway has an identity with IoT Hub. The translation module receives messages from downstream devices, translates them into a supported protocol, and then the IoT Edge device sends the messages on behalf of the downstream devices. All information looks like it is coming from one device, the gateway.



Reference: https://docs.microsoft.com/en-us/azure/iot-edge/iot-edge-as-gateway

QUESTION 3

You have an existing Azure IoT hub.

You use IoT Hub jobs to schedule long running tasks on connected devices.

Which two operations do the IoT Hub jobs support directly? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Trigger Azure functions.

B. Invoke direct methods.

- C. Update desired properties.
- D. Send cloud-to-device messages.

E. Disable IoT device registry entries.

Correct Answer: BC

Consider using jobs when you need to schedule and track progress any of the following activities on a set of devices: Invoke direct methods Update desired properties Update tags

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

QUESTION 4

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 add the desired properties to the device twin.

Does the solution meet the goal?

A. Yes



B. No

Correct Answer: A

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/

QUESTION 5

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

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