



AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

You are developing an Azure IoT Central application.

You add a new custom device template to the application.

You need to add a fixed location value to the device template. The value must be updated by the physical IoT device, read-only to device operators, and not graphed by IoT Central.

What should you add to the device template?

- A. a Location property
- B. a Location telemetry
- C. a Cloud property

Correct Answer: A

For example, a builder can create a device template for a connected fan that has the following characteristics: Sends temperature telemetry Sends location property

Reference: <https://docs.microsoft.com/en-us/azure/iot-central/core/howto-set-up-template>

QUESTION 2

You have an existing Azure IoT hub.

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

Which three 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.
- F. Update tags.

Correct Answer: BCF

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 3

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

You plan to deploy the IoT Edge devices to external networks. The firewalls of the external networks only allow traffic on port 80 and port 443.

You need to ensure that the devices can connect to the IoT hub. The solution must minimize costs.

What should you do?

- A. Configure the upstream protocol of the devices to use MQTT over TCP.
- B. Configure the upstream protocol of the devices to use MQTT over WebSocket.
- C. Connect the external networks to the IoT solution by using ExpressRoute.
- D. Integrate cellular communication hardware onto the devices and avoid the use of the external networks.

Correct Answer: B

MQTT over WebSockets uses port 443.

Note: Devices can communicate with IoT Hub in Azure using various protocols. Typically, the choice of protocol is driven by the specific requirements of the solution. The following table lists the outbound ports that must be open for a device to

be able to use a specific protocol:

Protocol	Port
MQTT	8883
MQTT over WebSockets	443
AMQP	5671
AMQP over WebSockets	443
HTTPS	443

Incorrect Answers:

A: MQTT over TCP uses port 883.

C: ExpressRoute uses BGP, which uses TCP port 179.



D: HTTPS proxy also uses port 443, but it would be a more expensive solution.

Reference: <https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-protocols>

QUESTION 4

HOTSPOT

You need to use message enrichment to add additional device information to messages sent from the IoT gateway devices when the reported temperature exceeds a critical threshold.

How should you configure the enrich message values? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Stiothubname	desired.pressure
Stwin	fanSpeed.reported
Stwin.properties	reported.fanSpeed
Stwin.results	temperature
Stwin.tags	temperature.reported

Correct Answer:

Answer Area

Stiothubname	desired.pressure
Stwin	fanSpeed.reported
Stwin.properties	reported.fanSpeed
Stwin.results	temperature
Stwin.tags	temperature.reported

Reference: <https://docs.microsoft.com/bs-cyrl-ba/azure/iot-hub/iot-hub-message-enrichments-overview>



QUESTION 5

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>

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