# AZ-220<sup>Q&As</sup>

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Microsoft Azure IoT Developer

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**QUESTION 1**

You have an Azure IoT solution that includes an Azure IoT hub.

You plan to deploy 10,000 IoT devices.

You need to validate the performance of the IoT solution while 10,000 concurrently connected devices stream telemetry. The solution must minimize effort.

What should you deploy?

A. an Azure IoT Device Simulation from Azure IoT Solution Accelerator

B. an Azure function, an IoT Hub device SDK, and a timer trigger

C. Azure IoT Central application and a template for the retail industry

D. an Azure IoT Edge gateway configured as a protocol translation gateway

Correct Answer: A

The IoT solution accelerators are complete, ready-to-deploy IoT solutions that implement common IoT scenarios. The scenarios include connected factory and device simulation.

Use the Device Simulation solution accelerator to run simulated devices that generate realistic telemetry. You can use this solution accelerator to test the behavior of the other solution accelerators or to test your own custom IoT solutions.

Reference:

https://docs.microsoft.com/en-us/azure/iot-accelerators/about-iot-accelerators

**QUESTION 2**

You create an Azure IoT hub by running the following command.

az iot hub create --resource-group MyResourceGroup --name MyIotHub --sku B1 --location westus --partition-count 4

What does MyIotHub support?

A. Device Provisioning Service

B. cloud-to-device messaging

C. Azure IoT Edge

D. device twins

Correct Answer: A

The Device Provisioning Service is included in the Basic Tiers (such as B1).

Incorrect Answers:

B, C, D: The Standard tier is needed for cloud-to-device messaging, Azure IoT Edge, and device twins.

Reference:

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-scaling

## QUESTION 3

You have an existing Azure IoT hub.

You need to connect physical IoT devices to the IoT hub.

You are connecting the devices through a firewall that allows only port 443 and port 80.

Which of following three communication protocols can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. HTTPS

B. MQTT

C. AMQP over WebSocket

D. MQTT over WebSocket

Correct Answer: ACD

## QUESTION 4

You have an Azure IoT solution that includes multiple Azure IoT hubs in different geographic locations and a single Device Provision Service instance. You need to configure device enrollment to assign devices to the appropriate IoT hub based on the following requirements:

1.

The registration ID of the device

2.

The geographic location of the device

The load between the IoT hubs in the same geographic location must be balanced.

What should you use to assign the devices to the IoT hubs?

A. Static configuration (via enrollment list only)

B. Lowest latency

C. Evenly weighted distribution

D. Custom (Use Azure Function)

Correct Answer: A

Set the Device Provisioning Service allocation policy

The allocation policy is a Device Provisioning Service setting that determines how devices are assigned to an IoT hub. There are three supported allocation policies:

Lowest latency: Devices are provisioned to an IoT hub based on the hub with the lowest latency to the device.

Evenly weighted distribution (default): Linked IoT hubs are equally likely to have devices provisioned to them. This is the default setting. If you are provisioning devices to only one IoT hub, you can keep this setting.

Static configuration via the enrollment list: Specification of the desired IoT hub in the enrollment list takes priority over the Device Provisioning Service-level allocation policy.

Reference:

https://docs.microsoft.com/en-us/azure/iot-dps/tutorial-provision-multiple-hubs

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**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 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 use direct methods and check the response.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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

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.

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.

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

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