



AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

You have an Azure IoT solution.

You plan to register an Azure IoT 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 64-hex character SHA256 hash for the certificates.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

QUESTION 2

You plan to deploy a standard tier Azure IoT hub.

You need to perform an over-the-air (OTA) update on devices that will connect to the IoT hub by using scheduled jobs.

What should you use?

- A. a device-to-cloud message
- B. the device twin reported properties
- C. a cloud-to-device message
- D. a direct method

Correct Answer: D

Releases via the REST API.

All of the operations that can be performed from the Console can also be automated using the REST API. You might do this to automate your build and release process, for example.

You can build firmware using the Particle CLI or directly using the compile source code API.

Note: Over-the-air (OTA) firmware updates are a vital component of any IoT system. Over-the-air firmware updates refers to the practice of remotely updating the code on an embedded device.

Reference:

<https://docs.particle.io/tutorials/device-cloud/ota-updates/>

QUESTION 3



You have an Azure IoT hub.

You need to recommend a solution to scale the IoT hub automatically.

What should you include in the recommendation?

- A. Create an SMS alert in IoT Hub for the Total number of messages used metric.
- B. Create an Azure function that retrieves the quota metrics of the IoT hub.
- C. Configure autoscaling in Azure Monitor.
- D. Emit custom metrics from the IoT device code and create an Azure Automation runbook alert.

Correct Answer: B

Note: IoT Hub is scaled and priced based on an allowed number of messages per day across all devices connected to that IoT Hub. If you exceed the allowed message threshold for your chosen tier and number of units, IoT Hub will begin rejecting new messages. To date, there is no built-in mechanism for automatically scaling an IoT Hub to the next level of capacity if you approach or exceed that threshold.

Reference: <https://docs.microsoft.com/en-us/samples/azure-samples/iot-hub-dotnet-autoscale/iot-hub-dotnet-autoscale/>

QUESTION 4

You have 100 devices that connect to an Azure IoT hub.

You plan to use Azure functions to process all the telemetry messages from the devices before storing the messages.

You need to configure the functions binding for the IoT hub.

Which two configuration details should you use to configure the binding? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the name of the resource group that contains the IoT hub
- B. the IoT hub's connection string shared access key that has Service connect permissions
- C. the connection string of the Azure Event Hub-compatible endpoint from the IoT Hub built-in endpoints
- D. the Azure Event-Hub compatible name

Correct Answer: CD

EventHubName: Functions 2.x and higher. The name of the event hub. When the event hub name is also present in the connection string, that value overrides this property at runtime.

Connection: The name of an app setting that contains the connection string to the event hub's namespace. Copy this connection string by clicking the Connection Information button for the namespace, not the event hub itself. This connection string must have send permissions to send the message to the event stream.

Reference: <https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-iot-output>



QUESTION 5

You are deploying an Azure IoT Edge solution that includes multiple IoT Edge devices.

You need to configure module-to-module routing.

To which section of the deployment manifest should you add the routes?

- A. storeAndForwardConfiguration
- B. \$edgeHub
- C. modules
- D. systemModules

Correct Answer: B

Routes are declared in the \$edgeHub desired properties.

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

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