



AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

You have an Azure IoT Edge device.

You need to modify the credentials used to access the container registry.

What should you modify?

- A. the \$edgeHub module twin
- B. the IoT Edge module
- C. the \$edgeAgent module twin
- D. the Azure IoT Hub device twin

Correct Answer: C

The module twin for the IoT Edge agent is called \$edgeAgent and coordinates the communications between the IoT Edge agent running on a device and IoT Hub. The desired properties are set when applying a deployment manifest on a specific device as part of a single-device or at-scale deployment.

These properties include: `runtime.settings.registryCredentials.{registryId}.username`
`runtime.settings.registryCredentials.registryId}.password`

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

QUESTION 2

HOTSPOT

You have an Azure IoT solution that includes an IoT device named Device1.

You need to enable an IoT Plug and Play app for Device1.

How should you complete the device connection? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

```
private static void Main(string[] args)
{
    var connectionString = "___";
    using var deviceClient = DeviceClient.CreateFromConnectionString(
        connectionString,
        new ClientOptions { A = " B :com:example:TemperatureController;1" });
    deviceClient.OpenAsync().Wait();
    SendMessage(deviceClient);
}
```

A
deviceEtag
deviceId
etag
modelid

B
dtdl
dtmi
pnv
type

Correct Answer:



Answer Area

```
private static void Main(string[] args)
{
    var connectionString = "___";
    using var deviceClient = DeviceClient.CreateFromConnectionString(
        connectionString,
        new ClientOptions { A = " B :com:example:TemperatureController;1" });
    deviceClient.OpenAsync().Wait();
    SendMessages(deviceClient);
}
```

A ▼	B ▼
deviceEtag	dtdl
deviceId	dtmi
etag	pnip
modelid	type

QUESTION 3

You have an IoT device that gathers data in a CSV file named Sensors.csv.

You deploy an Azure IoT hub that is accessible at ContosoHub.azure-devices.net.

You need to ensure that Sensors.csv is uploaded to the IoT hub.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Upload Sensors.csv by using the IoT Hub REST API.
- B. From the Azure subscription, select the IoT hub, select Message routing, and then configure a route to storage.
- C. From the Azure subscription, select the IoT hub, select File upload, and then configure a storage container.
- D. Configure the device to use a GET request to ContosoHub.azure-devices.net/devices/ContosoDevice1/files/notifications.

Correct Answer: AC



C: To use the file upload functionality in IoT Hub, you must first associate an Azure Storage account with your hub. Select File upload to display a list of file upload properties for the IoT hub that is being modified.

For Storage container: Use the Azure portal to select a blob container in an Azure Storage account in your current Azure subscription to associate with your IoT Hub. If necessary, you can create an Azure Storage account on the Storage accounts blade and blob container on the Containers

A: IoT Hub has an endpoint specifically for devices to request a SAS URI for storage to upload a file. To start the file upload process, the device sends a POST request to {iot hub}.azure-devices.net/devices/{deviceId}/files with the following JSON body: { "blobName": "{name of the file for which a SAS URI will be generated}" }

Incorrect Answers:

D: Deprecated: initialize a file upload with a GET. Use the POST method instead.

Reference: <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/iot-hub/iot-hub-configure-file-upload.md>

QUESTION 4

DRAG DROP

You need to add Time Series Insights to the solution to meet the pilot requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



Actions

Route telemetry from IoT Hub to a custom event.

Provision Time Series Insights.

Add a custom event hub endpoint to IoT Hub.

Add a new consumer group to the built-in events endpoint of IoT Hub.

Add a data access policy to Time Series Insights for the dashboard web app.

Answer Area

Correct Answer:



Actions

Add a custom event hub endpoint to IoT Hub.

Add a new consumer group to the built-in events endpoint of IoT Hub.

Answer Area

Provision Time Series Insights.

Route telemetry from IoT Hub to a custom event.

Add a data access policy to Time Series Insights for the dashboard web app.

Step 1: Provision Time Series Insights

Select Provision new IoT Hub to create a new IoT hub.

Step 2: Route telemetry from IoT Hub to a custom event.

Step 3: Add a data access policy to Time Series Insights for the dashboard web app

Scenario: Requirements. Pilot Requirements

During the pilot phase, devices will be deployed to 10 offices. Each office will have up to 1,000 devices.

During this phase, you will add Azure Time Series Insights in parallel to Stream Analytics to support real-time graphs and queries in a dashboard web app.



The pilot deployment must minimize operating costs.

Incorrect Answers:

No need to use an endpoint.

Reference:

<https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-update-create-environment>

QUESTION 5

HOTSPOT

You create an Azure IoT hub as shown in the following exhibit.

IoT hub ---
Microsoft

Basics Networking **Management** Tags Review + create

Each IoT hub is provisioned with a certain number of units in a specific tier. The tier and number of units determine the maximum daily quota of messages that you can send. [Learn more](#)

Scale tier and units

Pricing and scale tier * ⓘ S1: Standard tier [Learn how to choose the right IoT hub tier for your solution](#)

Number of S1 IoT hub units ⓘ 1
Determines how your IoT hub can scale. You can change this later if your needs increase.

Defender for IoT ☒ On
Turn on Defender for IoT and add an extra layer of threat protection to IoT Hub, IoT Edge, and your devices. [Learn more](#)

Pricing and scale tier ⓘ	S1	Device-to-cloud-messages ⓘ	Enabled
Messages per day ⓘ	400,000	Message routing ⓘ	Enabled
Cost per month	18.63 GBP	Cloud-to-device commands ⓘ	Enabled
Defender for IoT ⓘ	0.000745309 GBP per device per month	IoT Edge ⓘ	Enabled
		Device management ⓘ	Enabled

Advanced settings

Scale

Device-to-cloud partitions ⓘ 2

For each of the following statements select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.



Hot Area:

Answer Area

Statements	Yes	No
To support 1,200,000 messages per day and have Cloud-to-device commands enabled, the tier must be set to S3: Standard tier .	<input type="radio"/>	<input type="radio"/>
Defender for IoT can be enabled if the tier is set to B3: Basic tier .	<input type="radio"/>	<input type="radio"/>
Increasing Device-to-cloud partitions will increase the number of possible concurrent readers.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
To support 1,200,000 messages per day and have Cloud-to-device commands enabled, the tier must be set to S3: Standard tier .	<input type="radio"/>	<input checked="" type="radio"/>
Defender for IoT can be enabled if the tier is set to B3: Basic tier .	<input type="radio"/>	<input checked="" type="radio"/>
Increasing Device-to-cloud partitions will increase the number of possible concurrent readers.	<input checked="" type="radio"/>	<input type="radio"/>

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