

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

Microsoft Azure IoT Developer

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## QUESTION 1

### 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

<input type="checkbox"/>	<input type="checkbox"/>
Stiothubname	desired.pressure
Stwin	fanSpeed.reported
Stwin.properties	reported.fanSpeed
Stwin.results	temperature
Stwin.tags	temperature.reported

Correct Answer:

### Answer Area

<input type="checkbox"/>	<input type="checkbox"/>
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 2

You have an Azure IoT Central application.

You need to connect an IoT device to the application.

Which two settings do you require in IoT Central to configure the device? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Group SAS Primary Key
- B. the IoT hub name
- C. Scope ID
- D. Application Name
- E. Device ID

Correct Answer: CE

In your Azure IoT Central application, add a real device to the device template

1.

On the Devices page, select the Environmental sensor device template.

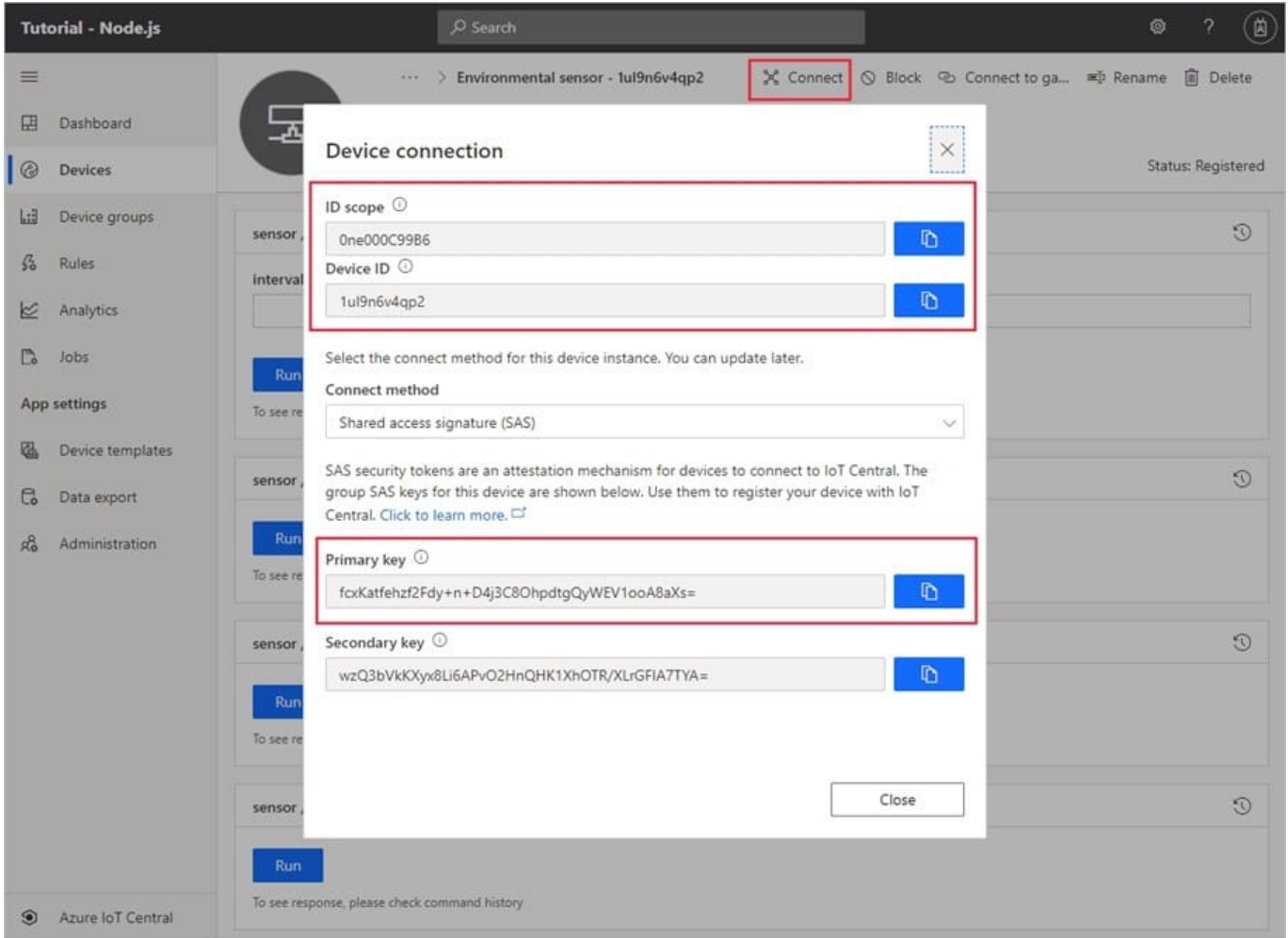
2.

Select + New.

3.

Make sure that Simulated is Off. Then select Create.

Click on the device name, and then select Connect. Make a note of the device connection information on the Device Connection page - ID scope, Device ID, and Primary key. You need these values when you create your device code:



Reference: <https://docs.microsoft.com/bs-cyrl-ba/azure/iot-central/core/tutorial-connect-device-python>

**QUESTION 3**

**HOTSPOT**

You have an Azure solution that contains an Azure IoT Edge deployment.

You are configuring an Azure Stream Analytics Edge job as shown in the following exhibit.

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

NOTE: Each correct selection is worth one point.

Hot Area:

```

WITH AnomalyDetectionStep AS
(
    SELECT
        MachineName,
        Compliance,
        System.Timestamp() AS time,
        CAST(ProbeTemperature AS float) AS temp,
        AnomalyDetection_ChangePoint(CAST(ProbeTemperature AS float), 80, 60)
        OVER(PARTITION BY MachineName, Compliance LIMIT DURATION(minute, 1)) AS ChangePointScores
    FROM PD-Data
    WHERE ProbeTemperature IS NOT NULL
)

```

```

SELECT
    MachineName,
    Compliance,
    time,
    temp,
    CAST(GetRecordPropertyValue(ChangePointScores, 'Score') AS float) AS
    ChangePointScore,
    CAST(GetRecordPropertyValue(ChangePointScores, 'IsAnomaly') AS bigint) AS
    IsChangePointAnomaly

```

INTO
PD-Data
PD-Anomalies
AnomalyDetectionStep
ProbeTemperature

FROM
PD-Data
PD-Anomalies
AnomalyDetectionStep
ProbeTemperature

Correct Answer:

```

WITH AnomalyDetectionStep AS
(
    SELECT
        MachineName,
        Compliance,
        System.Timestamp() AS time,
        CAST(ProbeTemperature AS float) AS temp,
        AnomalyDetection_ChangePoint(CAST(ProbeTemperature AS float), 80, 60)
            OVER(PARTITION BY MachineName, Compliance LIMIT DURATION(minute, 1)) AS ChangePointScores
    FROM PD-Data
    WHERE ProbeTemperature IS NOT NULL
)

```

```

SELECT
    MachineName,
    Compliance,
    time,
    temp,
    CAST(GetRecordPropertyValue(ChangePointScores, 'Score') AS float) AS
    ChangePointScore,
    CAST(GetRecordPropertyValue(ChangePointScores, 'IsAnomaly') AS bigint) AS
    IsChangePointAnomaly

```

INTO
PD-Data
PD-Anomalies
AnomalyDetectionStep
ProbeTemperature

FROM
PD-Data
PD-Anomalies
AnomalyDetectionStep
ProbeTemperature

### QUESTION 4

You have an Azure IoT Central solution that includes multiple IoT devices. The devices report temperature, humidity, and pressure.

You need to export the sensor data captured during a 48-hour period as a CSV file.

What should you use in IoT Central?

- A. Devices
- B. Jobs
- C. Device groups
- D. Analytics

Correct Answer: D

Azure IoT Central provides rich analytics capabilities to analyze historical trends and correlate telemetry from your devices. To get started, select Analytics on the left pane.

The analytics user interface has three main components:

**Data configuration panel:** On the configuration panel, select the device group for which you want to analyze the data. Next, select the telemetry that you want to analyze and select the aggregation method for each telemetry. The Group By

control helps to group the data by using device properties as dimensions.

**Time control:** Use the time control to select the duration for which you want to analyze the data.

**Chart control:** The chart control visualizes the data as a line chart.

Reference:

<https://docs.microsoft.com/en-us/azure/iot-central/core/howto-create-analytics>

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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 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 use an Azure policy to apply tags to a resource group.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead add the desired properties to the device twin.

Note: 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/>

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