

AZ-220^{Q&As}

Microsoft Azure IoT Developer

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QUESTION 1

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 2

HOTSPOT

You have an Azure IoT solution that contains the Azure IoT Edge devices shown in the following table.

Name	Country	City
iotDevice1	UK	London
iotDevice2	France	Paris
iotDevice3	UK	Birmingham

You have the standard deployments and target conditions shown in the following table.

Deployment number	Country	City	Priority
1	UK	London	5
2	UK	London	3
3	France	Paris	1
4	UK	Birmingham	1
5	UK	London	1

You have the modules shown in the following table.

Module	Deployment
Module1	2,5
Module2	3,4
Module3	1

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**

If deployment 4 is deleted, Module2 will be removed from iotDevice3.

If deployment 1 is deleted, iotDevice1 will receive deployment 2.

If iotDevice3 moves to London, the device will receive Module1.

Correct Answer:

Answer Area

Statements

Yes

No

If deployment 4 is deleted, Module2 will be removed from iotDevice3.

If deployment 1 is deleted, iotDevice1 will receive deployment 2.

If iotDevice3 moves to London, the device will receive Module1.

QUESTION 3

You have an Azure subscription that contains the resources shown in the following table.

Name	Type
Hub1	Azure IoT Hub
DPS1	Azure IoT Hub Device Provisioning service (DPS)
CA1	Certification authority (CA)

You create a group enrollment in DPS1 and enroll 100 IoT devices. Each device is issued a leaf certificate from CAT. You need to deprovision a single IoT device from the group enrollment. The solution must not affect the other devices.

Solution: Solution: You create a disabled individual enrollment by using the X.509 certificate of CA1.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 4

You have an Azure IoT Edge module named SampleModule that runs on a device named Device1.

You make changes to the code of SampleModule by using Microsoft Visual Studio Code.

You need to push the code to the container registry and then deploy the module to Device1.

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

NOTE: Each correct selection is worth one point.

- A. Build and push the SampleModule code to the registry.
- B. Create a deployment for a single device.
- C. Upload to Azure Storage.
- D. Build an IoT Edge solution.
- E. Generate a shared access signature (SAS) token for Device1.

Correct Answer: BD

D: Once you create IoT Edge modules with your business logic, you want to deploy them to your devices to operate at the edge.

B: Configure a deployment manifest. A deployment manifest is a JSON document that describes which modules to deploy, how data flows between the modules, and desired properties of the module twins. You deploy modules to your device by applying the deployment manifest that you configured with the module information.

1.

In the Visual Studio Code explorer view, expand the Azure IoT Hub section, and then expand the Devices node.

2.

To confirm that the device you've chosen is an IoT Edge device, select it to expand the list of modules and verify the presence of \$edgeHub and \$edgeAgent. Every IoT Edge device includes these two modules.

3.

Select Create Deployment for Single Device.

4.

Navigate to the deployment manifest JSON file that you want to use, and click Select Edge Deployment Manifest.

Reference: <https://docs.microsoft.com/en-us/azure/iot-edge/how-to-deploy-modules-vscode>

QUESTION 5

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 an Azure IoT solution that includes an Azure IoT hub and an Azure IoT Edge device.

You plan to deploy 10 Bluetooth sensors. The sensors do not support MQTT, AMQP, or HTTPS.

You need to ensure that all the sensors appear in the IoT hub as a single device.

Solution: You configure the IoT Edge device as an IoT Edge identity translation gateway. You configure the sensors to connect to the device.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

In the protocol translation gateway pattern, only the IoT Edge gateway has an identity with IoT Hub. The translation module receives messages from downstream devices, translates them into a supported protocol, and then the IoT Edge device sends the messages on behalf of the downstream devices. All information looks like it is coming from one device, the gateway.

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

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