AZ-220^{Q&As}

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Microsoft Azure IoT Developer

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QUESTION 1

HOTSPOT

You have an Azure Stream Analytics job named Asjob1 that uses the following query.

Asjob1 receives the events shown in the following table.

Name	Event time hh:mm:ss	Arrival time hh:mm:ss
Event1	01:10:01	01:10:07
Event2	01:10:02	01:10:30
Event3	01:10:03	01:10:04
Event4	01:10:04	01:10:05
Event5	01:10:05	01:10:15
Event6	01:10:06	01:10:07
Event7	01:10:07	01:10:11

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
The event time of Event1 will change to 01:10:07.	○	○
Event2 will be excluded from the output of Asjob1.	○	○
Event7 will be included in the 01:10:00 time window.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The event time of Event1 will change to 01:10:07.	○	●
Event2 will be excluded from the output of Asjob1.	●	○
Event7 will be included in the 01:10:00 time window.	●	○

QUESTION 2

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. Generate a deployment manifest.

D. Build an IoT Edge solution.

E. Generate a shared access signature (SAS) token for Device1.

Correct Answer: BC

C: 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.

B: You deploy modules to your device by applying the deployment manifest that you configured with the module information.

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

QUESTION 3

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

From IoT Hub, you create an Event subscription to be notified when devices are registered to IoT Hub. You select webhook endpoint as a handler for the Event subscription.

Which two types of Event Grid messages will be received by the webhook? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Microsoft.Devices.DeviceCreated

B. Microsoft.Resources.ResourceWriteSuccess

C. Microsoft.EventGrid.SubscriptionValidationEvent

D. Microsoft.Devices.DeviceConnected

Correct Answer: AC

Microsoft.Devices.DeviceCreated: Published when a device is registered to an IoT hub.

The first thing you want to do is handle Microsoft.EventGrid.SubscriptionValidationEvent events. Every time someone subscribes to an event, Event Grid sends a validation event to the endpoint with a validationCode in the data payload.

Reference: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-event-grid https://docs.microsoft.com/en-us/azure/event-grid/receive-events

QUESTION 4

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 add the desired properties to the device twin.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

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/

QUESTION 5

HOTSPOT

You need to configure Azure IoT Edge module routing to ensure that modules route traffic as shown in the following exhibit.
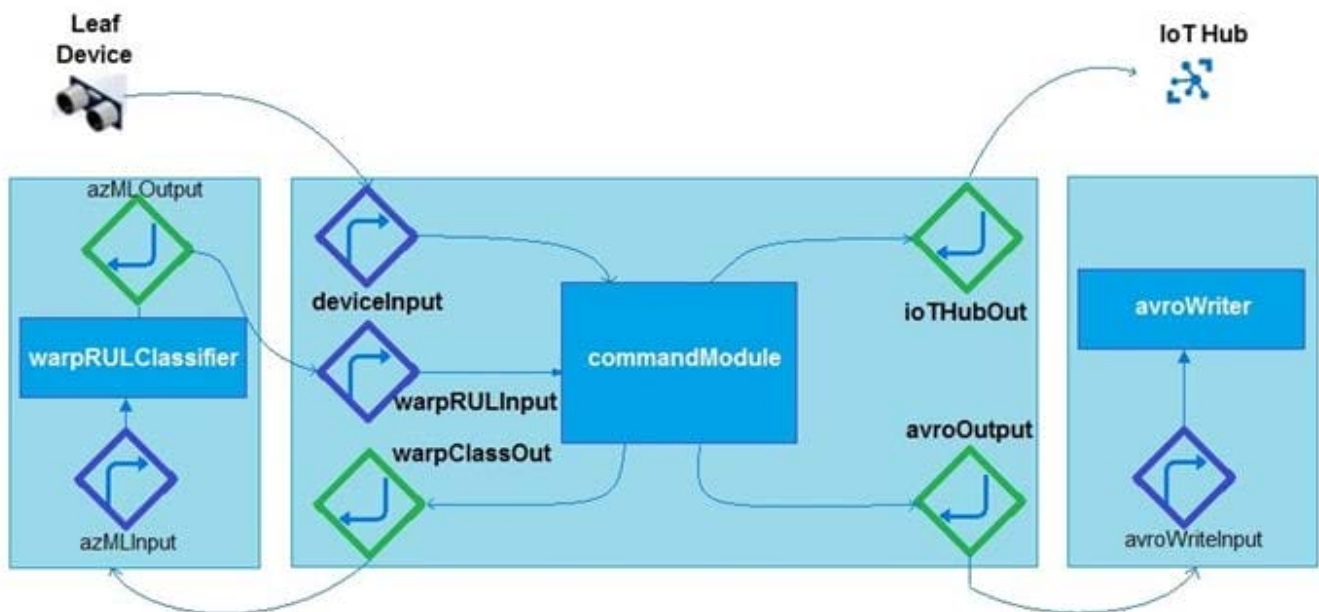
How should you complete the IoT Edge module routes? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
"schemaVersion": "1.0",
"routes": {
    "deviceToCommand": "FROM /messages/" WHERE NOT IS_DEFINED(        ▼ )
```

commandModule
$connectionModuled
$upstream

```
    INTO BrokeredEndpoint(\"
modules/commandModule/inputs/deviceInput\")",
    "warpClassifierToCommand": "FROM
/messages/modules/warpRULClassifier/outputs/azmlOutput
        INTO BrokeredEndpoint
(\"/modules/commandModule/inputs/warpRULInput\")",
    "commandToWarpClassifer": "FROM
/messages/modules/commandModule/outputs/warpClassOut
        INTO BrokeredEndpoint(\
" /modules/warpRULClassifier/inputs/azmlInput\")",
    "commandToAvroWriter": "FROM
/messages/modules/commandModule/outputs/avroOutput
        INTO BrokeredEndpoint
(\"/modules/avroWriter/inputs/avroWriterInput\")",
    "commandToCloud": "FROM
/messages/modules/commandModule/outputs/iotHubOut INTO        ▼ *
```

commandModule
$connectionModuled
$upstream

```
},
    "storeAndForwardConfiguration": {
        "timeToLiveSecs": 7200
        }
    }
}
```

Correct Answer:

Answer Area

```
"schemaVersion": "1.0",
"routes": {
    "deviceToCommand": "FROM /messages/" WHERE NOT IS_DEFINED(        ▼ )
```

commandModule
$connectionModuled
$upstream

```
   INTO BrokeredEndpoint(\"
modules/commandModule/inputs/deviceInput\")",
    "warpClassifierToCommand": "FROM
/messages/modules/warpRULClassifier/outputs/azmlOutput
       INTO BrokeredEndpoint
(\"/modules/commandModule/inputs/warpRULInput\")",
    "commandToWarpClassifer": "FROM
/messages/modules/commandModule/outputs/warpClassOut
       INTO BrokeredEndpoint(\
" /modules/warpRULClassifier/inputs/azmlInput\")",
    "commandToAvroWriter": "FROM
/messages/modules/commandModule/outputs/avroOutput
       INTO BrokeredEndpoint
(\"/modules/avroWriter/inputs/avroWriterInput\")",
    "commandToCloud": "FROM
/messages/modules/commandModule/outputs/iotHubOut INTO        ▼ *
```

commandModule
$connectionModuled
$upstream

```
},
    "storeAndForwardConfiguration": {
      "timeToLiveSecs": 7200
      }
    }
}
```

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