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Actual exam question from Microsoft's AZ-220

Question #: 1

Topic #: 1

[All AZ-220 Questions]

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 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, a Device Provisioning Service instance, and 1,000 connected IoT devices.

All the IoT devices are provisioned automatically by using one enrollment group.

You need to temporarily disable the IoT devices from the connecting to the IoT hub.

Solution: From the Device Provisioning Service, you disable the enrollment group, and you disable device entries in the identity registry of the IoT hub to which the IoT devices are provisioned.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

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Question #: 2

Topic #: 1

[All AZ-220 Questions]

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.

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You have an Azure IoT solution that includes an Azure IoT hub, a Device Provisioning Service instance, and 1,000 connected IoT devices.

All the IoT devices are provisioned automatically by using one enrollment group.

You need to temporarily disable the IoT devices from the connecting to the IoT hub.

Solution: You delete the enrollment group from the Device Provisioning Service.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 3

Topic #: 1

[All AZ-220 Questions]

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All the IoT devices are provisioned automatically by using one enrollment group.

You need to temporarily disable the IoT devices from the connecting to the IoT hub.

Solution: From the IoT hub, you change the credentials for the shared access policy of the IoT devices.

Does the solution meet the goal?

- A. Yes
- B. No

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 4

Topic #: 1

[All AZ-220 Questions]

HOTSPOT -

You have an Azure IoT hub.

You plan to deploy 1,000 IoT devices by using automatic device management.

The device twin is shown below.

```
"deviceId": "ContosoHyperDriveEngine1",
"etag": "AAAAAAAAAAaw=",
"deviceEtag": "MTYyNDk20kw",
"status": "enabled",
"statusUpdateTime": "0001-01-01t00:00:00Z",
"connectionTime": "Disconnected",
"lastActivityTime": "0001-01-01T00:00:00Z",
"cloudToDeviceMessageCount": 0,
"authenticationType": "sas",
"x509Thumbprint": {
  "primaryThumbprint": null,
  "secondaryThumbprint": null
},
"version": 13,
"tags": {
  "engine": {
    "warpCorVersion": "1.2.65b",
    "warpDriveType": "WM105a"
  }
},
"properties": {
  "desired": {
    "$metadata": {
      "$lastUpdated": "2019-10-17T18:43:33.7599556Z"
    },
    "version": 1
  },
  "reported": {
    "$metadata": {
      "$lastUpdated": "2019-10-17T18:43:33.7599556Z"
    },
    "version": 1
```

You need to configure automatic device management for the deployment.

Which target Condition and Device Twin Path should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Target Condition:

properties.desired.warpDriveType='WM105a'
properties.reported.warpDriveType='WM105a'
tags.engine.warpDriveType='WM105a'

Device Twin Path:

properties.desired.warpOperating
properties.reported.warpOperating
properties.warpOperating
properties.warpOperating

Question #: 6

Topic #: 1

[All AZ-220 Questions]

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.

Show Suggested Answer

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Question #: 7

Topic #: 1

[All AZ-220 Questions]

You plan to deploy an Azure IoT hub.

The IoT hub must support the following:

- ⇒ Three Azure IoT Edge devices
- ⇒ 2,500 IoT devices

Each IoT device will spend a 6 KB message every five seconds.

You need to size the IoT hub to support the devices. The solution must minimize costs.

What should you choose?

- A. one unit of the S1 tier
- B. one unit of the B2 tier
- C. one unit of the B1 tier
- D. one unit of the S3 tier

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Actual exam question from Microsoft's AZ-220

Question #: 8

Topic #: 1

[All AZ-220 Questions]

DRAG DROP -

You deploy an Azure IoT hub.

You need to demonstrate that the IoT hub can receive messages from a device.

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 **Answer Area**

Get a service primary key for the IoT hub.

Configure the Device Provisioning Service on the IoT hub.

Configure the device connection string on a device client.

Register a device in IoT Hub.

Trigger a new send event from a device client.







Actual exam question from Microsoft's AZ-220

Question #: 9

Topic #: 1

[All AZ-220 Questions]

DRAG DROP -

You have an Azure IoT hub.

You plan to attach three types of IoT devices as shown in the following table.

Name	Specification	Note
Transparent Field Gateway Device	High-power device with a fast processor and 4 GB of RAM	Will connect to multiple devices, each with its own credentials, by using the same TLS connection.
Low Resource Device	Low resource specifications, battery- operated, and 512 KB of RAM	Will connect directly to an IoT hub and will NOT connect to any other devices. Will use cloud-to-device messages.
Limited Sensor Device	Extremely low-power device with a limited microcontroller (MCU) and 256 KB of RAM	Will NOT support the Azure SDK. Messages must be as small as possible.

You need to select the appropriate communication protocol for each device.

What should you select? To answer, drag the appropriate protocols to the correct devices. Each protocol may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Protocols	Answer Area	
AMQP	Device	Protocol
HTTPS	Transparent Field Gateway Device:	Protocol
MQTT	Low Resource Device:	Protocol
	Limited Sensor Device:	Protocol

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Actual exam question from Microsoft's AZ-220

Question #: 11

Topic #: 1

[All AZ-220 Questions]

You have an existing Azure IoT hub.

You need to connect physical IoT devices to the IoT hub.

You are connecting the devices through a firewall that allows only port 443 and port 80.

Which three communication protocols can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. MQTT over WebSocket
- B. AMQP
- C. AMQP over WebSocket
- D. MQTT
- E. HTTPS

Question #: 12

Topic #: 1

[All AZ-220 Questions]

You have an Azure IoT solution that includes an Azure IoT hub and 100 Azure IoT Edge devices.

You plan to deploy the IoT Edge devices to external networks. The firewalls of the external networks only allow traffic on port 80 and port 443.

You need to ensure that the devices can connect to the IoT hub. The solution must minimize costs.

What should you do?

- A. Configure the upstream protocol of the devices to use MQTT over TCP.
- B. Configure the upstream protocol of the devices to use MQTT over WebSocket.
- C. Connect the external networks to the IoT solution by using ExpressRoute.
- D. Integrate cellular communication hardware onto the devices and avoid the use of the external networks.

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 14

Topic #: 1

[All AZ-220 Questions]

DRAG DROP -

You have an Azure subscription that contains an Azure IoT hub and 100 IoT devices.

The devices connect to the IoT hub by using the Advanced Message Queuing Protocol (AMQP) protocol and authenticate to the IoT hub by using symmetric keys.

You need to configure the SASL PLAIN username for the AMQP connection.

How should you configure the username? To answer, drag the appropriate options to the correct targets. Each option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Options	Answer Area	
Device symmetric key	@ .	
Deviceld		
IoT hub name		
root		
sas		
Shared access signature (SAS) token		

Question #: 15

Topic #: 1

[All AZ-220 Questions]

You are configuring a production environment for an Azure IoT solution.

You plan to deploy 1,000 IoT devices. Each device will send one device-to-cloud message every hour. Each message will be 4 KB.

You need to deploy an Azure IoT hub that will support the IoT device deployment. The solution must meet the following requirements:

- Perform bulk device operations such as creating multiple device identities.
- ➡ Minimize costs

What should you deploy?

- A one unit of the B1 tier
- B. one unit of the free tier
- C. one unit of the S1 tier
- D. one unit of the S2 tier

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Actual exam question from Microsoft's AZ-220

Question #: 18

Topic #: 1

[All AZ-220 Questions]

DRAG DROP

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You have an Azure subscription that contains an Azure IoT hub and 100 IoT devices.

The devices connect to the IoT hub by using the Message Queuing Telemetry Transport (MQTT) protocol and authenticate to the IoT hub by using symmetric keys.

You need to configure the username and password for the MQTT connection.

What should you use? To answer, drag the appropriate components to the correct targets. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Components

Answer Area

The device ID

The MAC address

Username: {IoThubhostname}/

The X.509 public key

Password:

The symmetric key of the device

The shared access signature (SAS) token

Question #: 22

Topic #: 1

[All AZ-220 Questions]

HOTSPOT

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You have an Azure subscription that contains the following Azure IoT hub:

• Name: Hub1

· Tier: S1

· Number of units: 14

The subscription has the tiers and unit costs shown in the following table.

Tier	Number of units	Messages per day	Costs per month
S1	1	400,000	18.63
S2	1	6,000,000	186.33
S3	1	300,000,000	18633.30

You have 60 IoT devices that connect to Hub1. Each IoT device sends a single 1-KB message to Hub1 per second.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Hub1 can support an additional five IoT devices before throttling messages.	\bigcirc	0
To minimize costs without affecting message throughput, Hub1 must be configured as one unit of S2.	0	0
If the IoT devices are configured to send a single 60-KB message per minute, the number of units configured can be reduced to nine before throttling messages.	\bigcirc	0

concurrent readers.

Actual exam question from Microsoft's AZ-220

Question #: 24

Topic #: 1

[All AZ-220 Questions]

DRAG DROP

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You are building an IoT device management application by using the Azure IoT Hub Service SDK.

You need to configure the application to send instructions via an IoT hub to IoT devices.

How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

DeviceClient DeviceJob FileNotification JobClient Message ServiceClient

Answer Area

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Actual exam question from Microsoft's AZ-220

Question #: 25

Topic #: 1

[All AZ-220 Questions]

You have an Azure IoT solution that includes an Azure IoT hub. The hub has the following configurations:

· Name: IoTHub1

· Retain for: 1 Day

· Azure region: East US

· Number of IoT hub units: 1

· Pricing and scale tier: B1 - Basic

· Consumer groups: \$Default Only

· Connectivity method: Public endpoint (all networks)

You need to ensure that the solution supports IoT Hub jobs that update device twin properties.

What should you do first?

- A. Create a device twin.
- B. Create a module twin.
- C. Create a shared access policy.
- D. Upgrade to a standard tier IoT hub.

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Question #: 26

Topic #: 1

[All AZ-220 Questions]

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

Name	Price tier
Hub1	F1 Free
Hub2	B1 Basic
Hub3	B3 Basic
Hub4	S1 Standard

You plan to evaluate the Microsoft Defender for IoT agent-based solution in Built-in mode.

Which IoT hubs can you use for the evaluation?

- A. Hub4 only
- B. Hub3 and Hub4 only
- C. Hub2, Hub3, and Hub4 only
- D. Hub1, Hub2, Hub3, and Hub4

Actual exam question from Microsoft's AZ-220

Question #: 28

Topic #: 1

[All AZ-220 Questions]

HOTSPOT

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

You are creating an IoT Plug and Play model for Device1.

On Device1, you create a device model file in a folder named dtmi/com/source/.

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

NOTE: Each correct selection is worth one point.

Answer Area

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Actual exam question from Microsoft's AZ-220

Question #: 1

Topic #: 2

[All AZ-220 Questions]

You have an Azure subscription that contains a resource group named RG1.

You need to deploy the Device Provisioning Service. The solution must ensure that the Device Provisioning Service can accept new device enrollments.

You create a Device Provisioning Service instance.

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

NOTE: Each correct selection is worth one point.

- A. From the Linked IoT hubs blade of the Device Provisioning Service, link an Azure IoT hub.
- B. From the Azure portal, create a new Azure IoT hub.
- C. From the Manage allocation policy blade of the Device Provisioning Service, configure an allocation policy.
- D. From the Certificates blade of the Device Provisioning Service, upload an X.509 certificate to the Device Provisioning Service.

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 2

Topic #: 2

[All AZ-220 Questions]

You have 10,000 IoT devices that connect to an Azure IoT hub. The devices do not support over-the-air (OTA) updates.

You need to decommission 1,000 devices. The solution must prevent connections and autoenrollment for the decommissioned devices.

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

NOTE: Each correct selection is worth one point.

- A. Update the connectionState device twin property on all the devices.
- B. Blacklist the X.509 root certification authority (CA) certificate for the enrollment group.
- C. Delete the enrollment entry for the devices.
- D. Remove the identity certificate from the hardware security module (HSM) of the devices.
- E. Delete the device identity from the device registry of the IoT hub.

Actual exam question from Microsoft's AZ-220

Question #: 3

Topic #: 2

[All AZ-220 Questions]

HOTSPOT -

You have an Azure IoT Central application that has a custom device template.

You need to configure the device template to support the following activities:

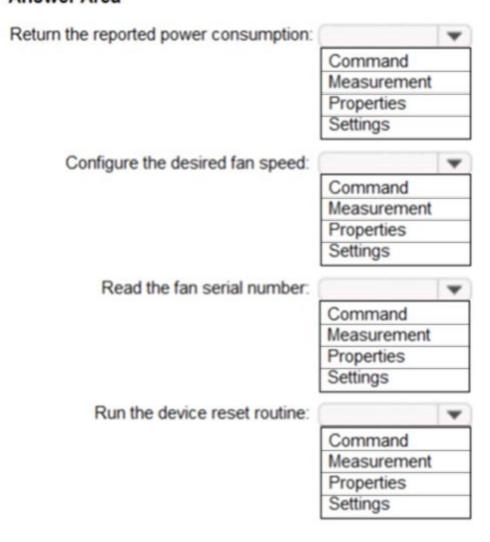
- Return the reported power consumption.
- ⇒ Configure the desired fan speed.
- Run the device reset routine.
- ⇒ Read the fan serial number.

Which option should you use for each activity? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



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Actual exam question from Microsoft's AZ-220

Question #: 4

Topic #: 2

[All AZ-220 Questions]

DRAG DROP -

You have an Azure IoT Central application that includes a Device Provisioning Service instance.

You need to connect IoT devices to the application without first registering the devices.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order. Select and Place:

Actions **Answer Area**

Flash unique credentials to the devices.

Obtain the credentials.

Generate device credentials.

Associate the devices to a template and approve the connections.

Connect the devices to IoT Central.





Question #: 6

Topic #: 2

[All AZ-220 Questions]

You have an existing Azure IoT hub.

You use IoT Hub jobs to schedule long running tasks on connected devices.

Which three operations do the IoT Hub jobs support directly? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Trigger Azure functions.
- B. Invoke direct methods.
- C. Update desired properties.
- D. Send cloud-to-device messages.
- E. Disable IoT device registry entries.
- F. Update tags.

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 9

Topic #: 2

[All AZ-220 Questions]

You have an Azure IoT hub that uses a Device Provisioning Service instance to automate the deployment of Azure IoT Edge devices.

The IoT Edge devices have a Trusted Platform Module (TPM) 2.0 chip.

From the Azure portal, you plan to add an individual enrollment to the Device Provisioning Service that will use the TPM of the IoT Edge devices as the attestation mechanism.

Which detail should you obtain before you can create the enrollment?

- A. the scope ID and the Device Provisioning Service endpoint
- B. the primary key of the Device Provisioning Service shared access policy and the global device endpoint
- C. the X.509 device certificate and the certificate chain
- D. the endorsement key and the registration ID

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Actual exam question from Microsoft's AZ-220

Question #: 10

Topic #: 2

[All AZ-220 Questions]

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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 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

Question #: 11

Topic #: 2

[All AZ-220 Questions]

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.

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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 tags to the device twin.

Does the solution meet the goal?

A. Yes

B. No

Show Suggested Answer

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Question #: 13

Topic #: 2

[All AZ-220 Questions]

You have 1,000 IoT devices that connect to an Azure IoT hub.

Each device has a property tag named city that is used to store the location of the device.

You need to update the properties on all the devices located at an office in the city of Seattle as quickly as possible. Any new devices in the Seattle office that are added to the IoT hub must receive the updated properties also.

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What should you do?

- A. From Automatic Device Management, create an IoT device configuration.
- B. From the IoT hub, generate a query for the target devices.
- C. Create a scheduled job by using the IoT Hub service SDKs.
- D. Deploy an Azure IoT Edge transparent gateway to the Seattle office and deploy an Azure Stream Analytics edge job.

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Actual exam question from Microsoft's AZ-220

Question #: 14

Topic #: 2

[All AZ-220 Questions]

You have an Azure IoT Central application.

You add an IoT device named Oven1 to the application. Oven1 uses an IoT Central template for industrial ovens.

You need to send an email to the managers group at your company as soon as the oven temperature falls below 400 degrees.

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

NOTE: Each correct selection is worth one point.

- A. Create a SendGrid account in the same resource group as the IoT Central application.
- B. Add a condition that has Time Aggregation set to Off.
- C. Add a condition that has Aggregation set to Minimum.
- D. Add the Manager role to the IoT Central application.
- E. From IoT Central, create a telemetry rule for the template.

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 15

Topic #: 2

[All AZ-220 Questions]

You have an Azure IoT solution that includes multiple Azure IoT hubs in different geographic locations and a single Device Provision Service instance.

You need to configure device enrollment to assign devices to the appropriate IoT hub based on the following requirements:

The registration ID of the device

The geographic location of the device

The load between the IoT hubs in the same geographic location must be balanced.

What should you use to assign the devices to the IoT hubs?

- A. Static configuration (via enrollment list only)
- B. Lowest latency
- C. Evenly weighted distribution
- D. Custom (Use Azure Function)

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Actual exam question from Microsoft's AZ-220

Question #: 17

Topic #: 2

[All AZ-220 Questions]

DRAG DROP -

You have an Azure IoT solution that includes an Azure IoT hub, a Device Provisioning Service instance, and 1,000 connected IoT devices. The IoT devices are allocated to four enrollment groups. Each enrollment group is configured to use certificate attestation.

You need to decommission all the devices in a single enrollment group and the enrollment group itself.

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 Answer Area

Delete each device from the identity registry.

Delete the IoT hub.

Remove the X.509 root certificate.

Disable the enrollment group.

Delete the enrollment group.





Question #: 18

Topic #: 2

[All AZ-220 Questions]

You have an Azure IoT hub that uses a Device Provision Service instance.

You plan to deploy 100 IoT devices.

You need to confirm the identity of the devices by using the Device Provision Service.

Which three device attestation mechanisms can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. X.509 certificates
- B. Trusted Platform Module (TPM) 2.0
- C. Trusted Platform Module (TPM) 1.2
- D. Symmetric key
- E. Device Identity Composition Engine (DICE)

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 19

Topic #: 2

[All AZ-220 Questions]

Note: This guestion is part of a series of guestions that present the same scenario. Each guestion 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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Standard tier Azure IoT hub and a fleet of IoT devices.

The devices connect to the IoT hub by using either Message Queuing Telemetry Transport (MQTT) or Advanced Message Queuing Protocol (AMQP).

You need to send data to the IoT devices and each device must respond. Each device will require three minutes to process the data and respond.

Solution: You update the twin desired property and check the corresponding reported property.

Does this meet the goal?

A. Yes

B. No

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Actual exam question from Microsoft's AZ-220

Question #: 20

Topic #: 2

[All AZ-220 Questions]

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.

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You have a Standard tier Azure IoT hub and a fleet of IoT devices.

The devices connect to the IoT hub by using either Message Queuing Telemetry Transport (MQTT) or Advanced Message Queuing Protocol (AMQP).

You need to send data to the IoT devices and each device must respond. Each device will require three minutes to process the data and respond.

Solution: You use direct methods and check the response.

Does this meet the goal?

- A. Yes
- B. No

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Actual exam question from Microsoft's AZ-220

Question #: 21

Topic #: 2

[All AZ-220 Questions]

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.

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You have a Standard tier Azure IoT hub and a fleet of IoT devices.

The devices connect to the IoT hub by using either Message Queuing Telemetry Transport (MQTT) or Advanced Message Queuing Protocol (AMQP).

You need to send data to the IoT devices and each device must respond. Each device will require three minutes to process the data and respond.

Solution: You use cloud-to-device messages and watch the cloud-to-device feedback endpoint for successful acknowledgement.

Does this meet the goal?

- A. Yes
- B. No

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Actual exam question from Microsoft's AZ-220

Question #: 22

Topic #: 2

[All AZ-220 Questions]

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 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, a Device Provisioning Service instance, and 1,000 connected IoT devices.

All the IoT devices are provisioned automatically by using one enrollment group.

You need to temporarily disable the IoT devices from connecting to the IoT hub.

Solution: You disconnect the Device Provisioning Service from the IoT hub.

Does this meet the goal?

- A. Yes
- B. No

Question #: 23

Topic #: 2

[All AZ-220 Questions]

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.

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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 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

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 24

Topic #: 2

[All AZ-220 Questions]

You have three Azure IoT hubs named Hub1, Hub2, and Hub3, a Device Provisioning Service instance, and an IoT device named Device1.

Each IoT hub is deployed to a separate Azure region.

Device enrollment uses the Lowest latency allocation policy.

The Device Provisioning Service uses the Lowest latency allocation policy.

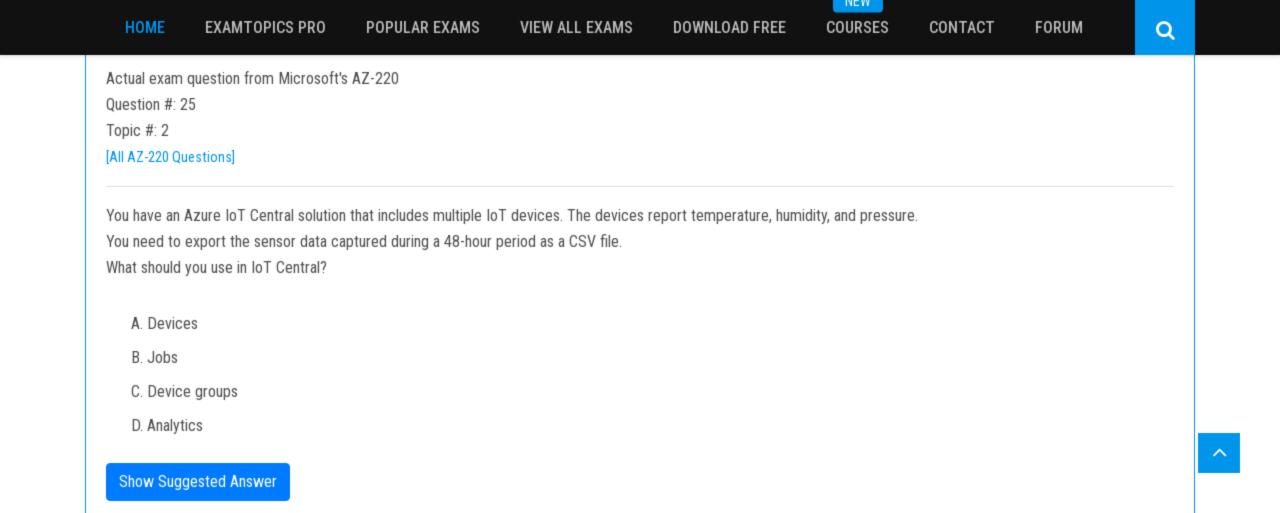
Device1 is auto-provisioned to Hub1 by using the Device Provisioning Service.

Device1 regularly moves between regions.

You need to ensure that Device1 always connects to the IoT hub that has the lowest latency.

What should you do?

- A. Configure device attestation that uses X.509 certificates.
- B. Implement device certificate rolling.
- C. Disenroll and reenroll Device1.
- D. Configure the re-provisioning policy.



Actual exam question from Microsoft's AZ-220

Question #: 26

Topic #: 2

[All AZ-220 Questions]

DRAG DROP -

You have an Azure IoT Central application.

You need to connect IoT devices that use SAS tokens to the application without first registering the devices.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

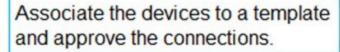
Actions

Answer Area

Generate device SAS keys.

Obtain the group primary key.

Flash unique credentials to the devices.



Connect the devices to IoT Central.





IAC AA



Actual exam question from Microsoft's AZ-220

Question #: 27

Topic #: 2

[All AZ-220 Questions]

HOTSPOT

_

You have an Azure IoT Edge automatic deployment named D1 that deploys a temperature module to five IoT Edge devices.

D1 has a deployment priority of 10 and the following module configuration.

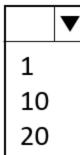
```
"TemperatureModule": {
    "properties.desired": {
        "SendData": true,
        "SendInterval": 5
     }
}
```

You need to create a new layered deployment that will add a new twin property named ReportingMode. The new deployment must not overwrite the existing module configurations set by D1.

How should you configure the deployment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Deployment Priority:



Deployment Configuration:

"TemperatureModule: {

```
"poperties.desired":{
    "poperties.desired.reportingSettings":{
        "properties.reported": {
        "properties.tags": {
        "ReportingMode": "batch"
}
```

Q

FORUM

Actual exam question from Microsoft's AZ-220

Question #: 29

Topic #: 2

[All AZ-220 Questions]

You have an Azure IoT solution that includes an Azure IoT hub and a Device Provisioning Service instance.

Several enrolled devices are stolen.

You need to prevent the stolen devices from connecting to the IoT solution. The solution must prevent the devices from re-enrollment and must be implemented as soon as possible.

What should you do?

- A. Delete the devices from the IoT hub.
- B. Delete the device enrollments from the Device Provisioning Service.
- C. Disable the devices in the IoT hub and delete from the IoT hub.
- D. Disable the device enrollments in the Device Provisioning Service and delete the devices from the IoT hub.

Actual exam question from Microsoft's AZ-220

Question #: 31

Topic #: 2

[All AZ-220 Questions]

DRAG DROP

_

You have an Azure IoT hub.

You need to deploy a Device Provisioning Service instance that uses X.509 attestation to support new IoT devices.

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

Actions

Answer Area

Export the Device Provisioning Service configuration to an Azure Resource Manager template.

Create an IoT Hub Device Provisioning Service instance.

Set the re-provisioning policy to **Never re-provision**.





Create an enrollment group for X.509 and set an allocation policy.

Link the IoT hub to the Device Provisioning Service instance.



Actual exam question from Microsoft's AZ-220

Question #: 33

Topic #: 2

[All AZ-220 Questions]

DRAG DROP

_

You need to configure a digital twin to accept device telemetry data from the IoT hub.

Which four 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.

Actions

Answer Area

Upload the digital twin model.

Configure user access permissions.

Create a digital twin.

Configure a system-assigned managed identity for Azure Digital Twins.



Deploy an Azure Digital Twins instance.

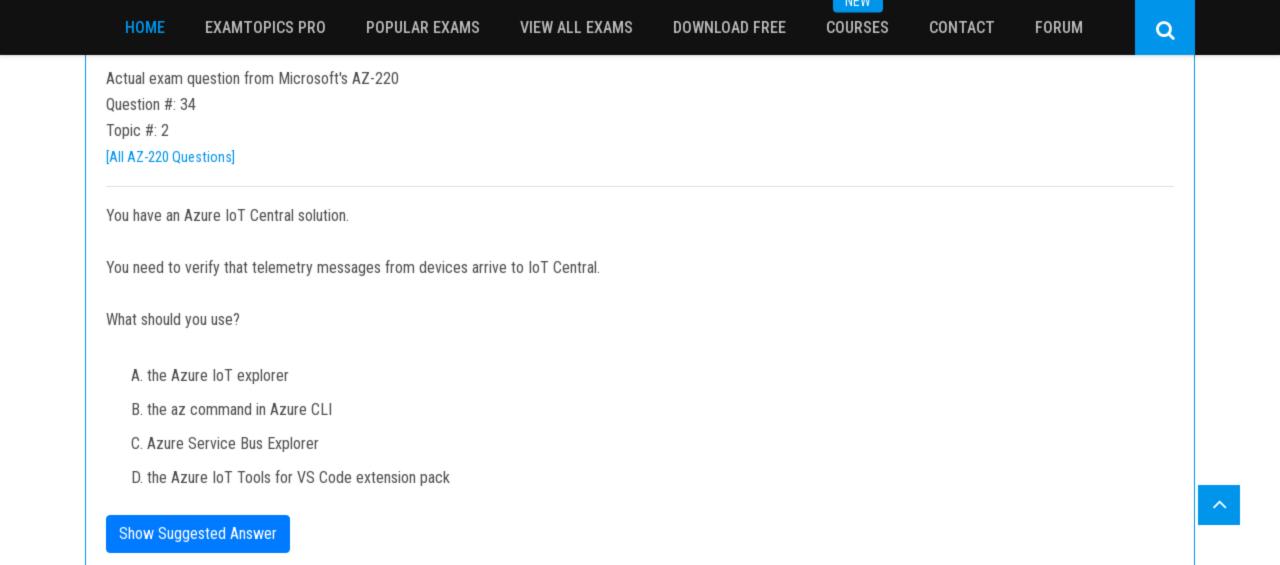


Configure Azure Digital Twins Explorer.

Create an event route.

Create an Azure Digital Twins endpoint.





Actual exam question from Microsoft's AZ-220

Question #: 37

Topic #: 2

[All AZ-220 Questions]

H0TSP0T

-

You have an Azure IoT Central application that has a custom device template.

You need to configure the device template to support the following activities:

- · Return the reported power consumption.
- · Configure the desired fan speed.
- · Run the device reset routine.
- · Read the fan serial number.

Which option should you use for each activity? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

Answer Area

Return the reported power consumption:

Command Telemetry Cloud Properties Property

INC W

Configure the desired fan speed:

Command Telemetry Cloud Properties Property

Read the fan serial number:

Command Telemetry Cloud Properties Property

Run the device reset routine:

Command Telemetry Cloud Properties Property

You have an Azure IoT Hub deployment.

You plan to deploy 1,000 IoT devices that will have 1 MB of RAM. The devices will be deployed behind firewalls that block port 443.

You need to configure the communication protocol for the devices. The solution must ensure that each device uses unique credentials.

Which protocol should you use?

- A. AMQP
- B. MQTT over WebSockets
- C. MQTT
- D. AMQP over WebSockets

Actual exam question from Microsoft's AZ-220

Question #: 1

Topic #: 3

[All AZ-220 Questions]

```
HOTSPOT -
```

```
You have the following device twin for the IoT device.
```

```
"deviceId": "device1",
"etag": "AAAAAAAAAAk=",
"deviceEtag": "NDcwMTU4Mzk=",
"status": "enabled",
"statusUpdateTime": "0001-01-01T00:00:00Z",
"connectionState": "Disconnected",
"lastActivityTime": "2019-10-21T22:45:57.9732805Z",
"cloudToDeviceMessageCount": 0,
"authenticationType": "sas",
"x509Thumbprint": {
 "primaryThumbprint": null,
  "secondaryThumbprint": null
"version": 17,
"properties": {
 "desired": {
    "$metadata": {
      "$lastUpdated": "2019-10-24T19:40:46.4809147Z",
      "$lastUpdatedVersion": 9
    },
    "$version": 9
 },
  "reported": {
    "fanSpeed": 73,
    "$metadata": {
      "$lastUpdated": "2019-10-24T19:41:28.8839751Z",
      " fanSpeed": {
      "$lastUpdated": "2019-10-24T19:41:28.8839751Z"
      }
    },
    "$version": 8
"capabilities": {
 "iotEdge": false
```

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:

Statements

You can add a property that contains multiple nested values to the device twin.

The device twin will set fanSpeed for the physical IoT device to 73.

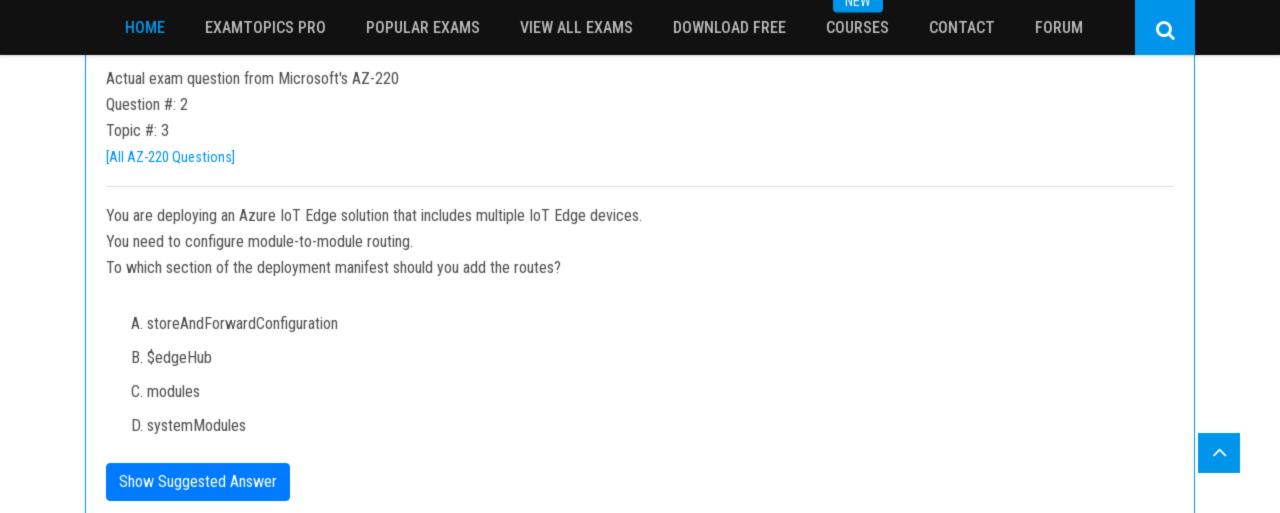
You can change the device identity of the physical IoT device by modifying the deviceId property.

Yes No

0







Question #: 3

Topic #: 3

[All AZ-220 Questions]

You have an IoT device that has the following configurations:

- → Hardware: Raspberry Pi
- ⇒ Operating system: Raspbian

You need to deploy Azure IoT Edge to the device.

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

NOTE: Each correct selection is worth one point.

- A. Update the IoT Edge runtime.
- B. Install the IoT Edge security daemon.
- C. Run the Deploy-IoTEdge PowerShell cmdlet on the IoT Edge device.
- D. Install the container runtime.

Question #: 4

Topic #: 3

[All AZ-220 Questions]

You develop a custom Azure IoT Edge module named temperature-module.

You publish temperature-module to a private container registry named mycr.azurecr.io

You need to build a deployment manifest for the IoT Edge device that will run temperature-module.

Which three container images should you define in the manifest? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. mcr.microsoft.com/azureiotedge-simulated-temperature-sensor:1.0
- B. mcr.microsoft.com/azureiotedge-agent:1.0
- C. mcr.microsoft.com/iotedgedev:2.0
- D. mycr.azurecr.io/temperature-module:latest
- E. mcr.microsoft.com/azureiotedge-hub:1.0

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 5

Topic #: 3

[All AZ-220 Questions]

DRAG DROP -

You need to install the Azure IoT Edge runtime on a new device that runs Windows 10 IoT Enterprise.

Which four 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

From an elevated PowerShell prompt, run the following command.

{Invoke-WebRequest -useb https://aka.ms/ iotedge-win} | Invoke-Expression; Initialize-IoTEdge

From Azure IoT Hub, create an IoT Edge device.

From a Bash prompt, run the following commands.

```
curl https://packages.
microsoft.com/keys/microsoft.asc |
  gpg --dearmor > microsoft.gpg
sudo cp ./microsoft.gpg /etc/apt/trusted.gpg.d/
```

From an elevated PowerShell prompt, run the following command.

•{Invoke-WebRequest -useb https://aka.ms/
iotedge-win} |
Invoke-Expression; Deploy-IoTEdge

Enter the IoT Edge device connection string.

From a Bash prompt, run the following commands.

sudo apt-get install moby-engine

Answer Area





NEW

Actual exam question from Microsoft's AZ-220

Question #: 6

Topic #: 3

[All AZ-220 Questions]

You have an Azure IoT solution that includes an Azure IoT Hub named Hub1 and an Azure IoT Edge device named Edge1. Edge1 connects to Hub1.

You need to deploy a temperature module to Edge1.

What should you do?

- A. From the Azure portal, navigate to Hub1 and select IoT Edge. Select Edge1, and then select Manage Child Devices. From a Bash prompt, run the following command: az iot edge set-modules --device-id Edge1 --hub-name Hub1 --content deploymentMan1.json
- B. Create an IoT Edge deployment manifest that specifies the temperature module and the route to \$upstream. From a Bash prompt, run the following command: az iot hub monitor-events --device-id Edge1 --hub-name Hub1
- C. From the Azure portal, navigate to Hub1 and select IoT Edge. Select Edge1, select Device Twin, and then set the deployment manifest as a desired property. From a Bash prompt, run the following command: az iot hub monitor-events --device-id Edge1 --hub-name Hub1
- D. Create an IoT Edge deployment manifest that specifies the temperature module and the route to \$upstream. From a Bash prompt, run the following command: az iot edge set-modules -device-id Edge1 --hub-name Hub1 --content deploymentMan1.json

Actual exam question from Microsoft's AZ-220

Question #: 7

Topic #: 3

[All AZ-220 Questions]

DRAG DROP -

Your company is creating a new camera security system that will use Azure IoT Hub.

You plan to use an Azure IoT Edge device that will run Ubuntu Server 18.04.

You need to configure the IoT Edge device.

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

Create an individual device enrollment by using the Device Provisioning Service.

Run the following commands.

sudo apt-get install moby-engine
sudo apt-get install moby-cli
sudo apt-get install iotedge

Add the connection string to the /etc/iotedge/config.yaml file, and then run the following command.

sudo systemctl restart iotedge

Install the IoT edge repository for Ubuntu Server 18.04 on the physical device. From IoT Hub, create a new IoT Edge device.

From IoT Hub, create an IoT Edge device registry entry.

Answer Area





IA C AA

Actual exam question from Microsoft's AZ-220

Question #: 8

Topic #: 3

[All AZ-220 Questions]

You have the devices shown in the following table.

Name	Type	Hardware configuration
Device1	Azure Sphere microcontroller	4 MB of RAM
	unit (MCU)	ARM processor
Device2	Raspberry Pi single board computer (SBC)	1 GB of RAM ARM processor
Device3	Desktop computer	8 GB of RAM x64 processor
Device4	Apple iPhone	4 GB of RAM ARM processor

You are implementing a proof of concept (POC) for an Azure IoT solution.

You need to deploy an Azure IoT Edge device as part of the POC.

On which two devices can you deploy IoT Edge? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Device1
- B. Device2
- C. Device3
- D. Device4

Actual exam question from Microsoft's AZ-220

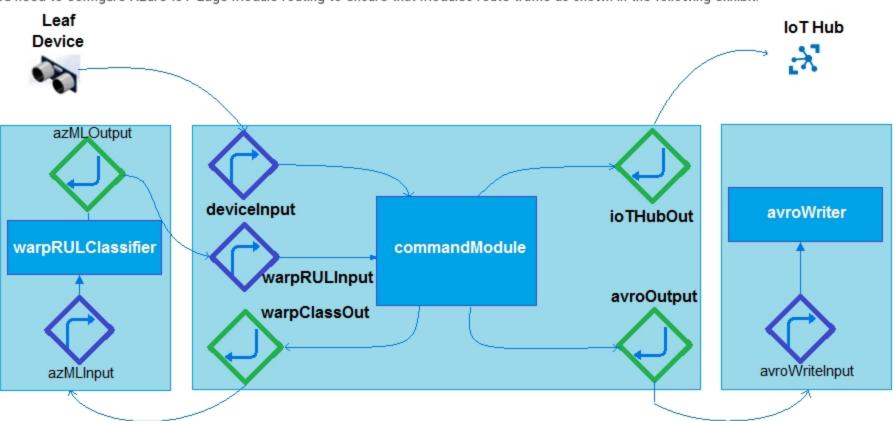
Question #: 9

Topic #: 3

[All AZ-220 Questions]

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
      }
  }
```

Actual exam question from Microsoft's AZ-220

Question #: 10

Topic #: 3

[All AZ-220 Questions]

DRAG DROP -

You have an Azure IoT Edge device named Edge1.

You need to configure the module container to link the module storage to the host storage.

How should you configure the deployment manifest? To answer, drag the appropriate keys to the correct targets. Each key may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Keys

Answer Area

Question #: 11

Topic #: 3

[All AZ-220 Questions]

You are developing an Azure IoT solution for a shipping company. The company's ships will have sensors used for predictive maintenance. Some sensor devices will be MQTT-capable, and others will use Modbus.

Each ship has an internet connection that is available only when the ship is docked.

You create an Azure IoT hub.

You need to implement an IoT solution that uses Azure IoT Edge.

What should you do?

- A. Configure an IoT Edge gateway. Deploy an IoT Edge Modbus module. From the Azure portal, create IoT devices and add connection strings to the devices.
- B. Add the MQTT devices to the IoT hub and configure an IoT Edge gateway. From the IoT Edge gateway device, assign the MQTT devices as child devices of the gateway. Use the File upload feature of IoT Hub when internet connectivity is available.
- C. Add the MQTT devices to the IoT hub, configure an IoT Edge gateway, and set Enable connection to IoT Hub to Disable. From the IoT Edge gateway device, assign the MQTT devices as child devices of the gateway. Deploy the IoT Edge Modbus module.
- D. Add the MQTT devices to the IoT hub and configure an IoT Edge gateway. From the IoT Edge gateway device, assign the MQTT devices as child devices of the gateway. Deploy an IoT Edge Modbus module.

Actual exam question from Microsoft's AZ-220

Question #: 12

Topic #: 3

[All AZ-220 Questions]

HOTSPOT -

You have an Azure subscription that contains an Azure IoT hub, an Azure IoT Edge gateway, and 1,000 leaf devices. The leaf devices use a custom communication protocol that is NOT supported by the IoT hub.

You need to configure the gateway to meet the following requirements:

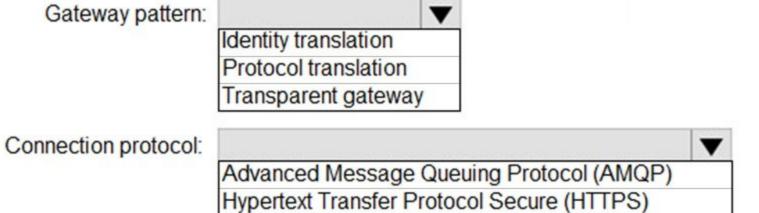
- Minimize the number of connections between the gateway and the IoT hub.
- Support addressing cloud-to-device messages to individual leaf devices.

How should you configure the gateway? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area



Question #: 13

Topic #: 3

[All AZ-220 Questions]

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.

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 14

Topic #: 3

[All AZ-220 Questions]

HOTSPOT -

You have an Azure subscription that contains an Azure IoT hub and two IoT devices named Device1 and Device2.

You plan to deploy an Azure IoT Edge gateway device named Gateway1.

You need to ensure that all device-to-cloud messages and twin change notifications from Device1 and Device2 to the IoT hub are routed by using Gateway1.

What tasks should you perform to configure the devices? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Update the connection string to specify the GatewayHostName parameter on:

Gateway1
Device1 and Device2
Gateway1, Device1, and Device2

Update the route value on:

Gateway1
Device1 and Device2
Gateway1, Device1, and Device2

Set the route value to:

FROM /*INTO \$upstream
FROM /messages/* INTO \$upstream
FROM /messages/modules/* INTO \$upstream

a

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Actual exam question from Microsoft's AZ-220

Question #: 15

Topic #: 3

[All AZ-220 Questions]

DRAG DROP -

Your company develops a custom module and exports the module as a Linux Dockerfile.

You need to deploy the module to an Azure IoT Edge device that runs Ubuntu Server 18.04.

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.

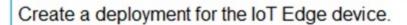
Select and Place:

Actions Answer Area

From Microsoft Visual Studio Code, create an IoT Edge solution and add the Dockerfile to the solution.

Delete the \$edgeHub module from the IoT Edge device.

Attach a child device to the IoT Edge device.



Build and push the module to Azure Container Registry.







Question #: 16

Topic #: 3

[All AZ-220 Questions]

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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing a custom Azure IoT Edge module.

The module needs to identify the device ID of the local device.

Solution: You configure the module to read the IOTEDGE_DEVICEID environment variable.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

^

Question #: 18

Topic #: 3

[All AZ-220 Questions]

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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing a custom Azure IoT Edge module.

The module needs to identify the device ID of the local device.

Solution: You configure the module to read the device ID of the device twin.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 20

Topic #: 3

[All AZ-220 Questions]

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 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 sensors to connect directly to the IoT hub.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer

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CONTACT

Actual exam question from Microsoft's AZ-220

Question #: 23

Topic #: 3

[All AZ-220 Questions]

Note: This guestion is part of a series of guestions that present the same scenario. Each guestion 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 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

Show Suggested Answer

FORUM

Actual exam question from Microsoft's AZ-220

Question #: 24

Topic #: 3

[All AZ-220 Questions]

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.

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Q

Actual exam question from Microsoft's AZ-220

Question #: 28

Topic #: 3

[All AZ-220 Questions]

DRAG DROP

You have sites that contain IoT devices as shown in the following table.

Name	Device twin required	Protocol
Site1	Yes	Message Queuing Telemetry
		Transport (MQTT)
Site2	No	Extensible Messaging and
		Presence Protocol (XMPP)
Site3	Yes	Extensible Messaging and
		Presence Protocol (XMPP)

You have an Azure subscription.

You need to create the Azure IoT Edge devices shown in the following table.

Name	Deploy to
Gateway1	Site1
Gateway2	Site2
Gateway3	Site3

Which type of gateway pattern should you use for each IoT Edge device? To answer, drag the appropriate gateway pattern types to the correct devices. Each pattern type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Patterns	Answer Area		
Transparent	Gateway1:		
Identity translation	Gateway2:		
Protocol translation	Gateway3:		

IN E W

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 30

Topic #: 3

[All AZ-220 Questions]

HOTSPOT

You are developing an Azure IoT Edge solution that has the following requirements:

- Each IoT Edge device must be deployed behind a firewall that only allows internet access over port 443.
- The number of connections from each IoT Edge device to an Azure IoT hub must be minimized.
- Each IoT Edge device must act as a gateway for the leaf devices on a private network.
- The container solution must be supported by Microsoft in production.

What should you recommend as a container solution and an upstream protocol for the IoT Edge devices?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Container solution:

Azure Kubernetes Service (AKS)

Docker Moby

Upstream protocol:

Advanced Message Queuing Protocol (AMQP) Advanced Message Queuing Protocol (AMQP) over WebSocket Message Queuing Telemetry Transport (MQTT)

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Actual exam question from Microsoft's AZ-220

Question #: 32

Topic #: 3

[All AZ-220 Questions]

DRAG DROP

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You have an Azure subscription that contains an Azure IoT hub and Azure IoT Edge devices.

You need to create a custom IoT Edge module and deploy the module to an IoT Edge device by using Microsoft Visual Studio Code.

Which four 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.

Actions

Add custom code

Build and push the IoT Edge solution

Build the IoT Edge solution

Build and run the IoT Edge solution

Create a new IoT solution

Generate a deployment manifest

Create a deployment for a single device

Create a new IoT Edge solution and set the target platform

Answer Area



Question #: 33

Topic #: 3

[All AZ-220 Questions]

Note: This guestion is part of a series of guestions that present the same scenario. Each guestion 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 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 subscription that contains an Azure IoT hub named Hub1 and an Azure IoT Edge device named Device1.

You need to configure Device1 to operate in extended offline mode and to support modifying the configuration of modules deployed to Device1 while the device offline.

Solution: From Azure Cloud Shell, you run the following Azure CLI command.

az lot edge set-modules --device-id Device1 --hub-name Hub1 --content deployment.json

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer

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IAC AA

Actual exam question from Microsoft's AZ-220

Question #: 34

Topic #: 3

[All AZ-220 Questions]

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 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 subscription that contains an Azure IoT hub named Hub1 and an Azure IoT Edge device named Device1.

You need to configure Device1 to operate in extended offline mode and to support modifying the configuration of modules deployed to Device1 while the device offline.

Solution: From Device1, you edit the/etc/iotedge/config.yaml file, you modify the ConfigSource and LocalConfigPath environment variables in the agent section, and then you restart the IoT Edge security daemon.

Does this meet the goal?

- A. Yes
- B. No

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Actual exam question from Microsoft's AZ-220

Question #: 36

Topic #: 3

[All AZ-220 Questions]

```
H0TSP0T
```

.

You have an Azure IoT hub and three Azure IoT Edge devices. The device twin code for each device is shown in the following table.

Name	Device twin code fragment
Device1	"tags": {
	"office": "Seattle1"
	},
Device2	"tags": {
	"office": "Seattle2"
	},
Device3	"tags": {
	"office": "London"
	},

A standard automatic deployment is already applied.

You have three layered deployments. The deployment code for each deployment is shown in the following table.

```
Name
                                                         Deployment code
Deployment1
                   "id": "deploy1",
                   "priority": 90,
                    "targetCondition": " tags.office='Seattle1' OR tags.office='Seattle2' ",
               "$edgeAgent": {
                               "properties.desired.modules.MyModule1": {
               "$edgeHub": {
                               "properties.desired.routes.MyModule1":
               "FROM /messages/modules/MyModule1/outputs/seattle1 INTO $upstream",
                               "properties.desired.routes.MyModule1A": "FROM /messages/modules/MyModule1/* INTO
               $upstream"
Deployment2
                   "id": "deploy2",
                   "priority": 80,
                    "targetCondition": " tags.office='Seattle1' OR tags.office='Seattle2' OR tags.office='London'
               "$edgeAgent": {
                               "properties.desired.modules.MyModule1": {
               "$edgeHub": {
                               "properties.desired.routes.MyModule1":
               "FROM /messages/modules/MyModule1/ouputs/seattle2 INTO $upstream",
                               "properties.desired.routes.MyModule1A": "FROM /messages/modules/MyModule1/* INTO
               $upstream"
                               "properties.desired.routes.MyModule1B": "FROM /messages/modules/MyModule1/" INTO
               $upstream"
Deployment3
                   "id": "deploy3",
                   "priority": 70,
                    "targetCondition": " tags.office='London' ",
               "$edgeAgent": {
                               "properties.desired.modules.MyModule1": {
                               "properties.desired.modules.MyModule2": {
               "$edgeHub": {
                               "properties.desired.routes.MyModule1": "FROM /messages/modules/MyModule1/* INTO
               $upstream",
                               "properties.desired.routes.MyModule2": "FROM /messages/modules/MyModule2/* INTO
               $upstream"
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Device1 routes messages to /messages/modules/MyModule1/outputs/seattle2.	0	0
Device2 has the MyModule1B route deployed.	0	0
Device3 has the MyModule2 route deployed.	0	0

Question #: 38

Topic #: 3

[All AZ-220 Questions]

HOTSPOT

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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.

Answer Area

Statements	Yes	No
If deployment 4 is deleted, Module2 will be removed from iotDevice3.	0	0
If deployment 1 is deleted, iotDevice1 will receive deployment 2.	0	0
If iotDevice3 moves to London, the device will receive Module1.	0	0

Question #: 39

Topic #: 3

[All AZ-220 Questions]

H0TSP0T

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You have an Azure subscription that contains an Azure IoT hub named Hub1 and the IoT devices shown in the following table.

Name	Tag: "location"	Tag: "environment"	Date registered	
			in Hub1	
Device1	East	Test	January 15	
Device2	East	Prod	March 12, 2022	
Device3	East	Prod	April 1, 2022	

You have the automatic device configurations shown in the following table.

Name	Device twin property	Date configuration added	Target condition	Priority
Conf1	Fan=1	January 1, 2022	tags.location = 'East' AND tags.environment = 'Test'	10
Conf2	Fan=2	March 1, 2022	tags.location = 'East' AND tags.environment = 'Prod'	10
Conf3	Fan=3	March 15, 2022	tags.location = 'East' AND tags.environment = 'Prod'	10
Conf4	fan=4	February 22, 2022	tags.location = 'East' AND tags.environment = 'Test'	20

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Device1 will have a device twin property of Fan=4.	0	0
Device2 will have a device twin property of Fan=2.	0	0
Device3 will have a device twin property of Fan=3.	0	0

IN E VV

Actual exam question from Microsoft's AZ-220

Question #: 41

Topic #: 3

[All AZ-220 Questions]

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 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.

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

Question #: 42

Topic #: 3

[All AZ-220 Questions]

H0TSP0T

-

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.

```
Answer Area
   private static void Main(string[] args)
    {
    var connectionString = ".....";
    using var deviceClient = DeviceClient.CreateFromConnectionString(
      connectionString,
      new ClientOptions {
                                                             :com:example:TemperatureController;1" });
                           deviceEtag
                                                 dtmi
                                                 dtdl
                           deviceId
                                                 pnp
                           etag
                           modelId
                                                 type
   deviceClient.OpenAsync().Wait();
   SendMessage(deviceClient);
```

Question #: 43

Topic #: 3

[All AZ-220 Questions]

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 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.

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 96-hex character SHA384 hash for the certificates.

Does this meet the goal?

- A. Yes
- B. No

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Actual exam question from Microsoft's AZ-220

Question #: 44

Topic #: 3

[All AZ-220 Questions]

DRAG DROP

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You have an Azure subscription that contains an Azure IoT Edge device named Edge1 and an Azure container registry named Registry1.

You need to configure Edge1 to connect to Registry1.

How should you complete the deployment manifest? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values

```
"SedgeAgent"

"$edgeHub"

"image"

"settings"
```

Answer Area

•

Question #: 45

Topic #: 3

[All AZ-220 Questions]

You have an Azure Stream Analytics workspace that contains a Stream Analytics job.

You need to create a JavaScript user-defined aggregate (UDA) method that will recalculate the UDA state based on the previous state and the current event values. The UDA method must be called when an event leaves a SLIDINGWINDOW.

Which UDA method should you use?

- A. deaccumulateState()
- B. accumulate()
- C. computeResult()
- D. deaccumulate()

Show Suggested Answer

^

IN E W

Actual exam question from Microsoft's AZ-220

Question #: 46

Topic #: 3

[All AZ-220 Questions]

You have an Azure IoT solution that contains an Azure IoT Edge device named Edge1.

Edge1 fails to start.

You connect to Edge1 and identify the following:

- · The IoT Edge agent is running.
- The IoT Edge agent continually reports the following error: "Empty dconfig file."
- · No modules have started.

You need to ensure that Edge1 starts successfully.

What should you do?

- A. Update the /etc/hosts file for the host operating system and restart Edge1.
- B. Reapply the iotedge config and restart Edge1.
- C. Specify a DNS server for the container engine and restart Edge1.
- D. Restart the Docker service.

IN E W

Actual exam question from Microsoft's AZ-220

Question #: 47

Topic #: 3

[All AZ-220 Questions]

You are prototyping an IoT edge solution.

You are creating a deployment manifest for an IoT edge device that will connect to an Azure IoT hub.

Which two modules should you include in the manifest? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. azureiotsecurity
- B. edgeHub
- C. opc-publisher
- D. edgeAgent
- E. iotedgeModbus

Show Suggested Answer

Question #: 1

Topic #: 4

[All AZ-220 Questions]

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

Show Suggested Answer

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Actual exam question from Microsoft's AZ-220

Question #: 2

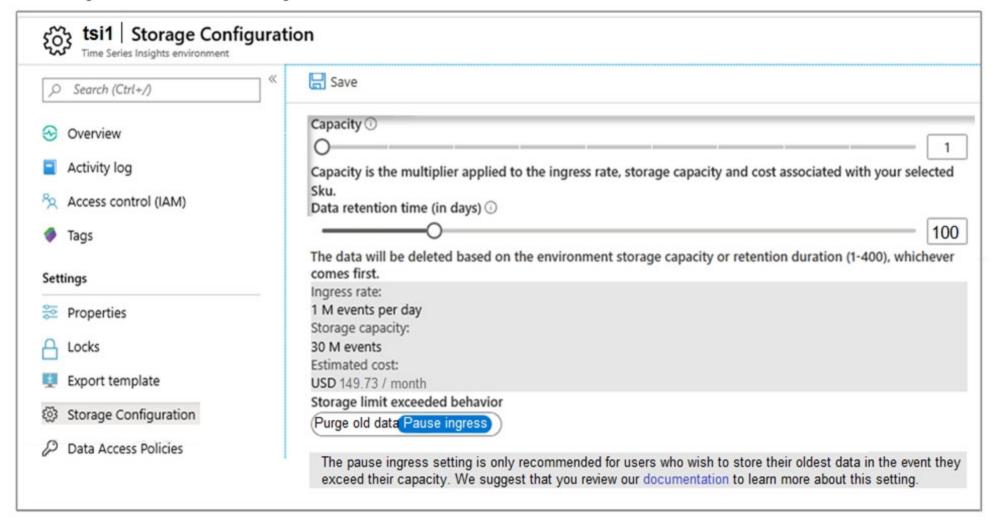
Topic #: 4

[All AZ-220 Questions]

HOTSPOT -

You have an Azure IoT hub named Hub1 and an Azure Time Series Insights environment named tsi1. Tsi1 connects to Hub1. The solution has been operational for 6 months.

Tsi1 is configured as shown in the following exhibit.



Hub1 receives 1 million messages per day. Each message is up to 1 KB and is formatted as JSON.

Hub1 has seven days of retained telemetry.

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

Statement	Yes	No
Tsi1 will display 100 days of telemetry.	0	0
Tsi1 will display telemetry that arrived three months ago.	0	0
Tsi1 will display real-time data after the Time Series Insights environment has been connected to the event source of Hub1 for two days.	0	0

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Actual exam question from Microsoft's AZ-220

Question #: 3

Topic #: 4

[All AZ-220 Questions]

DRAG DROP -

You have an instance of Azure Time Series Insights and an Azure IoT hub that receives streaming telemetry from IoT devices.

You need to configure Time Series Insights to receive telemetry from the devices.

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 Answer Area

Configure the Time Series Insights event source to connect to an existing IoT hub.

Create an Azure event hub.

Add a new Time Series Insights event source.

Increase the events retention to seven days for the built-in endpoints of the IoT hub.

Create a dedicated consumer group in the built-in events endpoints of the IoT hub.





IN E VV

Actual exam question from Microsoft's AZ-220

Question #: 4

Topic #: 4

[All AZ-220 Questions]

You have 1,000 devices that connect to a standard tier Azure IoT hub.

All the devices are commissioned and send telemetry events to the built-in IoT Hub endpoint.

You configure message enrichment on the events endpoint and set the enrichment value to \$twin.tags.ipV4.

When you inspect messages on the events endpoint, you discover that all the messages are stamped with a string of "\$twin.tags.ipV4".

What are two possible causes of the issue? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. The ipV4 tag is a restricted twin property that is unavailable for message enrichment.
- B. A standard tier IoT hub does not support device twin properties in message enrichments.
- C. The device sending the message has no device twin.
- D. Message enrichment cannot be added to messages going to a built-in endpoint.
- E. The device twin path used for the value of the enrichment does not exist.
- F. The device twin property value used for message enrichment is set to "\$twin.tags.ipV4".

Question #: 5

Topic #: 4

[All AZ-220 Questions]

You have an Azure IoT hub.

You plan to implement IoT Hub events by using Azure Event Grid.

You need to send an email when the following events occur:

- □ Device Created
- Device Deleted
- □ Device Connected
- □ Device Disconnected

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

NOTE: Each correct selection is worth one point.

- A. From the IoT hub, configure an event subscription that has API management as the Endpoint Type.
- B. From the IoT hub, configure an event subscription that has Web Hook as the Endpoint Type.
- C. Create an Azure logic app that has a Request trigger.
- D. From the IoT hub, configure an event subscription that has Service Bus Queue as the Endpoint Type.
- E. Create an Azure logic app that has a scheduled trigger.

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Actual exam question from Microsoft's AZ-220

Question #: 6

Topic #: 4

[All AZ-220 Questions]

HOTSPOT -

You create an Azure Stream Analytics job that has the following query.

```
SELECT
```

```
Count(*) AS dailyCount,
    System.Timestamp() AS time
INTO FunctionOutput
FROM IotHubInput TIMESTAMP BY deviceTime
GROUP BY TumblingWindow(hour, 24)
```

The job is configured to have an Azure IoT Hub input and an output to an Azure function.

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 function will be invoked at midni	ght UTC.	\bigcirc	\bigcirc
The function will be invoked only who receives telemetry.	en the IoT hub	0	0
When the Stream Analytics job is rest		0	0

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IAC AA

Actual exam question from Microsoft's AZ-220

Question #: 7

Topic #: 4

[All AZ-220 Questions]

DRAG DROP -

You need to install the Azure IoT Edge runtime on a new device that runs Windows 10 IoT Enterprise.

In which order should you perform the actions? 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 **Answer Area**

From an elevated PowerShell prompt, run the Initialize-IoTEdge cmdlet.

Enter the IoT Edge device connection string.

From Azure IoT Hub, create an IoT Edge device.

From an elevated PowerShell prompt, run the Deploy-IoTEdge cmdlet.





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Actual exam question from Microsoft's AZ-220 Question #: 8 Topic #: 4

[All AZ-220 Questions]

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 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 Stream Analytics job that receives input from an Azure IoT hub and sends the outputs to Azure Blob storage. The job has compatibility level 1.1 and six streaming units.

You have the following query for the job.

```
SELECT COUNT (*) AS Count, TollBoothID
INTO BlobOutput
FROM IotHubInput
GROUP BY TumblingWindow(minute, 3), TollBoothID
```

You plan to increase the streaming unit count to 12.

You need to optimize the job to take advantage of the additional streaming units and increase the throughput.

Solution: You change the query to the following.

```
WITH Step1 AS (
SELECT COUNT (*) AS Count, TollBoothID, PartitionID
FROM IoTHubInput PARTITION BY PartitionID
GROUP BY TumblingWindow (minute, 3), TollBoothID, PartitionID
SELECT SUM(Count) AS Count, TollBoothID
INTO BlobOutput
FROM Step1
GROUP BY TumblingWindow (minute, 3), TollBoothID
Does this meet the goal?
```

A. Yes

B. No

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Actual exam question from Microsoft's AZ-220

Question #: 9

Topic #: 4

[All AZ-220 Questions]

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 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 Stream Analytics job that receives input from an Azure IoT hub and sends the outputs to Azure Blob storage. The job has compatibility level 1.1 and six streaming units.

You have the following query for the job.

```
SELECT COUNT(*) AS Count, TollBoothID
INTO BlobOutput
FROM IotHubInput
GROUP BY TumblingWindow(minute, 3), TollBoothID
```

You plan to increase the streaming unit count to 12.

You need to optimize the job to take advantage of the additional streaming units and increase the throughput.

Solution: You change the query to the following.

```
SELECT COUNT(*) AS Count, TollBoothID

INTO BlobOutput

FROM IotHubInput PARTITION BY PartitionID

GROUP BY TumblingWindow(minute, 3), TollBoothID, PartitionID

Does this meet the goal?
```

A. Yes

B. No

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Q

Actual exam question from Microsoft's AZ-220

Question #: 10

Topic #: 4

[All AZ-220 Questions]

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 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 Stream Analytics job that receives input from an Azure IoT hub and sends the outputs to Azure Blob storage. The job has compatibility level

1.1 and six streaming units.

You have the following query for the job.

```
SELECT COUNT(*) AS Count, TollBoothID
INTO BlobOutput
FROM IotHubInput
GROUP BY TumblingWindow(minute, 3), TollBoothID
```

You plan to increase the streaming unit count to 12.

You need to optimize the job to take advantage of the additional streaming units and increase the throughput.

Solution: You change the compatibility level of the job to 1.2.

Does this meet the goal?

A. Yes

B. No

Question #: 12

Topic #: 4

[All AZ-220 Questions]

You have an Azure subscription that contains an Azure Time Series Insights environment. The environment has the properties shown in the following table.

Name	Туре
p1	String
p2	String
p4.p5	Nested double

You need to create a D.

Which two time series expressions can be correctly used as part of the query? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. \$event.p1.String = 'abc'
- B. \$event.p2 = 'abc'
- C. \$event['p1'] != NULL
- D. \$event.p4.p5 = 0.0

IN E W

IN E W

Question #: 1

Topic #: 5

[All AZ-220 Questions]

You have 10 IoT devices that connect to an Azure IoT hub named Hub1.

From Azure Cloud Shell, you run az iot hub monitor-events —hub-name Hub1 and receive the following error message: "az iot hub: 'monitor-events' is not in the 'az iot hub' command group. See 'az iot hub —help'."

FORUM

Q

You need to ensure that you can run the command successfully.

What should you run first?

- A. az jot hub monitor-feedback --hub-name Hub1
- B. az iot hub generate-sas-token --hub-name Hub1
- C. az iot hub configuration list --hub-name Hub1
- D. az extension add -name azure-cli-iot-ext

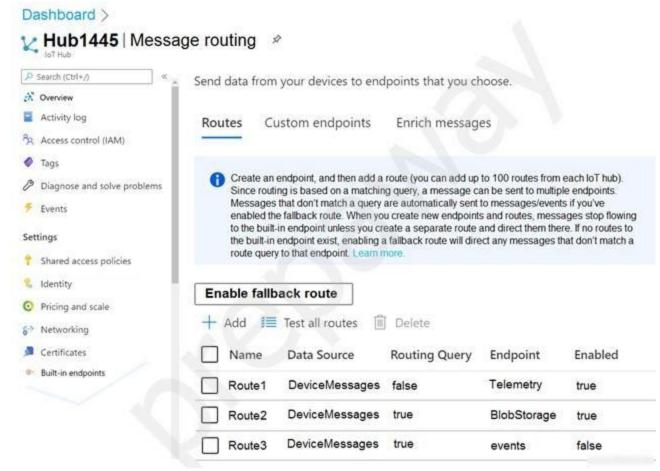
Show Suggested Answer

Question #: 2

Topic #: 5

[All AZ-220 Questions]

You have an Azure Stream Analytics job that connects to an Azure IoT hub named Hub1445 as a streaming data source. Hub1445 is configured as shown in the exhibit.



The Stream Analytics job fails to receive any messages from the IoT hub.

What should you do to resolve the issue?

- A. Disable the Route1 route.
- B. Enable the Route3 route.
- C. Disable the Route2 route.
- D. Enable the fallback route.

Question #: 6

Topic #: 5

[All AZ-220 Questions]

You have 1,000 devices that connect to an Azure IoT hub.

You are performing a scheduled check of deployed IoT devices.

You plan to run the following command from the Azure CLI prompt. az iot hub query --hub-name hub1 --query-command "SELECT * FROM devices WHERE connectionState = 'Disconnected'"

What does the command return?

- A. the Device Disconnected events
- B. the device twins
- C. the Connections logs
- D. the device credentials

Show Suggested Answer

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