AZ-220^(Q&As)

Microsoft Azure IoT Developer

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QUESTION 1

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

NOTE: Each correct selection is worth one point.

A. HTTPS

B. MQTT

C. AMQP over WebSocket

D. MQTT over WebSocket

Correct Answer: ACD

QUESTION 2

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)

Correct Answer: ABD

The Device Provisioning Service supports the following forms of attestation:

X.509 certificates based on the standard X.509 certificate authentication flow.

Trusted Platform Module (TPM) based on a nonce challenge, using the TPM 2.0 standard for keys to present a signed

Shared Access Signature (SAS) token. This does not require a physical TPM on the device, but the service expects to attest using the endorsement key per the TPM spec.

Symmetric Key based on shared access signature (SAS) Security tokens, which include a hashed signature and an embedded expiration.

Reference: https://docs.microsoft.com/en-us/azure/iot-dps/concepts-service#attestation-mechanism

QUESTION 3

DRAG DROP

You have an Azure IoT solution that includes an Azure IoT hub.

You receive a root certification authority (CA) certificate from the security department at your company.
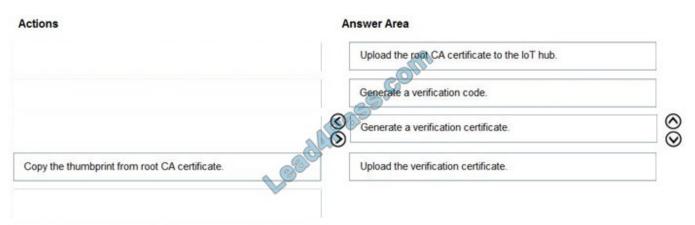
You need to configure the IoT hub to use the root CA certificate.

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	Answer Area
Generate a verification code.	
Upload the verification certificate.	
Upload the root CA certificate to the IoT hub.	
Copy the thumbprint from root CA certificate.	
Generate a verification certificate.	

Correct Answer:

Actions	Answer Area
	Upload the root CA certificate to the IoT hub.
	Generate a verification code.
	Generate a verification certificate.
Copy the thumbprint from root CA certificate.	Upload the verification certificate.

Reference: https://docs.microsoft.com/bs-latn-ba/azure/iot-hub/iot-hub-security-x509-get-started

QUESTION 4

You need to store the real-time alerts generated by Stream Analytics to meet the technical requirements. Which type of Stream Analytics output should you configure?

A. Azure Blob storage

B. Microsoft Power BI

C. Azure Cosmos DB

D. Azure SQL Database

Correct Answer: A

When you create a Time Series Insights Preview pay-as-you-go (PAYG) SKU environment, you create two Azure resources:

An Azure Storage general-purpose V1 blob account for cold data storage.

An Azure Time Series Insights Preview environment that can be configured for warm data storage.

Reference:

https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-update-storage-ingress

QUESTION 5

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 tour 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.
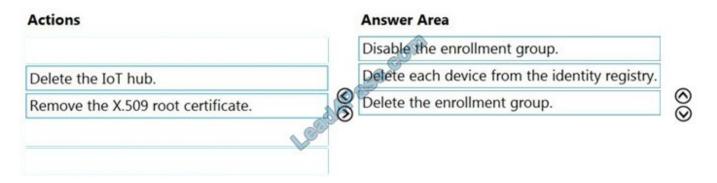
Select and Place:

Actions

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.

Answer Area

Correct Answer:

Actions

Delete the IoT hub.
Remove the X.509 root certificate.

Answer Area

Disable the enrollment group.
Delete each device from the identity registry.
Delete the enrollment group.

To deprovision all of the devices that have been provisioned through an enrollment group:

Disable the enrollment group to disallow its signing certificate.

Use the list of provisioned devices for that enrollment group to disable or delete each device from the identity registry of its respective IoT hub.

After disabling or deleting all devices from their respective IoT hubs, you can optionally delete the enrollment group. Be aware, though, that, if you delete the enrollment group and there is an enabled enrollment group for a signing certificate

higher up in the certificate chain of one or more of the devices, those devices can re-enroll.

Reference:

https://docs.microsoft.com/en-us/azure/iot-dps/how-to-unprovision-devices

QUESTION 6

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

Correct Answer: A

IoT Hub provides three options for device apps to expose functionality to a back-end app:

Twin\\'s desired properties for long-running commands intended to put the device into a certain desired state. For example, set the telemetry send interval to 30 minutes.

Direct methods for communications that require immediate confirmation of the result. Direct methods are often used for interactive control of devices such as turning on a fan.

Cloud-to-device messages for one-way notifications to the device app.

Reference:

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-c2d-guidance

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QUESTION 7

HOTSPOT

You have the following device twin for the IoT device.

```
{
  "deviceId": "device1",
  "etag": "AAAAAAAAAk=",
  "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	Yes	No
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.	○	○

Correct Answer:

Statements	Yes	No
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.	○	●

Box1: Yes

Box 2: Yes

Fanspeed 73 is a reported property.

Box 3: No

The deviceID property is read only.

Reference:

https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-device-twins

QUESTION 8

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 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

Correct Answer: B

Reference: https://docs.microsoft.com/bs-latn-ba/azure/iot-dps/how-to-unprovision-devices

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QUESTION 9

You have an existing Azure IoT hub.

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

Which two 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.

Correct Answer: BC

Consider using jobs when you need to schedule and track progress any of the following activities on a set of devices: Invoke direct methods Update desired properties Update tags

Reference: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-jobs
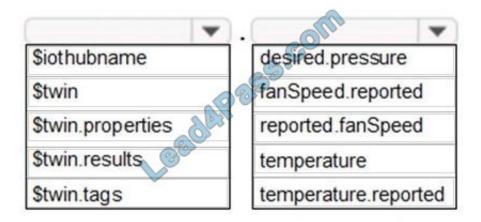

QUESTION 10

HOTSPOT

You need to use message enrichment to add additional device information to messages sent from the IoT gateway devices when the reported temperature exceeds a critical threshold.

How should you configure the enrich message values? To answer, select the appropriate options in the answer area.
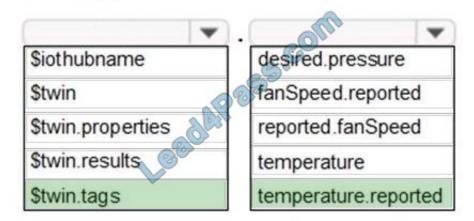
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

$iothubname	▼	desired.pressure	▼
$twin		fanSpeed.reported	
$twin.properties		reported.fanSpeed	
$twin.results		temperature	
$twin.tags		temperature.reported	

Correct Answer:

Answer Area

$iothubname	▼	desired.pressure	▼
$twin		fanSpeed.reported	
$twin.properties		reported.fanSpeed	
$twin.results		temperature	
$twin.tags		**temperature.reported**	

Reference: https://docs.microsoft.com/bs-cyrl-ba/azure/iot-hub/iot-hub-message-enrichments-overview

QUESTION 11

What should you do to identify the cause of the connectivity issues?

A. Send cloud-to-device messages to the IoT devices.

B. Use the heartbeat pattern to send messages from the IoT devices to iothub1.

C. Monitor the connection status of the device twin by using an Azure function.

D. Enable the collection of the Connections diagnostics logs and set up alerts for the connected devices count metric.

Correct Answer: D

Scenario: You discover connectivity issues between the IoT gateway devices and iothub1, which cause IoT devices to lose connectivity and messages.

To log device connection events and errors, turn on diagnostics for IoT Hub. We recommend turning on these logs as early as possible, because if diagnostic logs aren\\'t enabled, when device disconnects occur, you won\\'t have any

information to troubleshoot the problem with.

Step 1:

Sign in to the Azure portal.

Browse to your IoT hub.

Select Diagnostics settings.

Select Turn on diagnostics.

Enable Connections logs to be collected.

For easier analysis, turn on Send to Log Analytics (see pricing).

Step 2:

Set up alerts for device disconnect at scale

To get alerts when devices disconnect, configure alerts on the Connected devices (preview) metric.

Reference:

https://docs.microsoft.com/bs-cyrl-ba/azure/iot-hub/iot-hub-troubleshoot-connectivity

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QUESTION 12

You use Azure Security Center in an Azure IoT solution.

You need to exclude some security events. The solution must minimize development effort.

What should you do?

A. Create an Azure function to filter security messages.

B. Add a configuration to the code of the physical IoT device.

C. Add configuration details to the device twin object.

D. Create an azureiotsecurity module twin and add configuration details to the module twin object.

Correct Answer: D

Properties related to every Azure Security Center for IoT security agent are located in the agent configuration object, within the desired properties section, of the azureiotsecurity module.

To modify the configuration, create and modify this object inside the azureiotsecurity module twin identity.

Note: Azure Security Center for IoT\\'s security agent twin configuration object is a JSON format object. The configuration object is a set of controllable properties that you can define to control the behavior of the agent.

These configurations help you customize the agent for each scenario required. For example, automatically excluding some events, or keeping power consumption to a minimal level are possible by configuring these properties.

Reference:

https://docs.microsoft.com/en-us/azure/asc-for-iot/how-to-agent-configuration

QUESTION 13

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

Correct Answer: B

Max number of Streaming Units with one step and with no partitions is 6.

Reference: https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-parallelization

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