



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

Microsoft Azure IoT Developer

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## QUESTION 1

You are developing an Azure IoT Central application.

You add a new custom device template to the application.

You need to add a fixed location value to the device template. The value must be updated by the physical IoT device, read-only to device operators, and not graphed by IoT Central.

What should you add to the device template?

- A. a Location property
- B. a Location telemetry
- C. a Cloud property

Correct Answer: A

For example, a builder can create a device template for a connected fan that has the following characteristics: Sends temperature telemetry Sends location property

Reference: <https://docs.microsoft.com/en-us/azure/iot-central/core/howto-set-up-template>

## QUESTION 2

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.

Hub1445 - Message routing

Send data from your devices to endpoints that you choose.

Routes Custom endpoints Enrich messages - preview

Create an endpoint, and then add a route (you can add up to 100 routes from each IoT hub). Since routing is based on a matching query, a message can be sent to multiple endpoints. Messages that don't match a query are automatically sent to messages/events if you've enabled the fallback route. [Learn more](#)

[Enable fallback route](#)

[+ Add](#) [Test all routes](#) [Delete](#)

<input type="checkbox"/>	Name	Data Source	Routing Query	Endpoint	Enabled
<input type="checkbox"/>	Route3	DeviceMessages	true	events	false
<input type="checkbox"/>	Route2	DeviceMessages	true	BlobStorage	true
<input type="checkbox"/>	Route1	DeviceMessages	false	Telemetry	true

The Stream Analytics job fails to receive any messages from the IoT hub. What should you do to resolve the issue?

- A. Change the Route1 route query to true.



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

Correct Answer: B

The device telemetry is usually passed as JSON from the device through the IoT Hub - this is handled nicely by Azure Streaming Analytics queries. The IoT Hub message routing should be configured as follows: Data source: Device Telemetry Messages Routing query: true (as the routing query is an expression that evaluates to true or false for each received message, the simplest way to send all messages to the endpoint is to just supply true as the query).

Reference: <https://darenmay.com/blog/azure-iot-streaming-analytics-data-lake-analytics-and-json/>

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### QUESTION 3

#### 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.

Select and Place:



### Actions

Configure Azure Digital Twins Explorer.

Create an event route.

Create an Azure Digital Twins endpoint.

Configure user access permissions.

Deploy an Azure Digital Twins instance.

Create a digital twin.

Upload the digital twin model.

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

### Answer Area

Correct Answer:

**Actions**

Configure Azure Digital Twins Explorer.

Create an event route.

Create an Azure Digital Twins endpoint.

Configure user access permissions.

**Answer Area**

Deploy an Azure Digital Twins instance.

Create a digital twin.

Upload the digital twin model.

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

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**QUESTION 4****HOTSPOT**

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



Asjob1 receives the events shown in the following table.

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

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

Statements	Yes	No
The event time of Event1 will change to 01:10:07.	<input type="radio"/>	<input type="radio"/>
Event2 will be excluded from the output of Asjob1.	<input type="radio"/>	<input type="radio"/>
Event7 will be included in the 01:10:00 time window.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
The event time of Event1 will change to 01:10:07.	<input type="radio"/>	<input checked="" type="radio"/>
Event2 will be excluded from the output of Asjob1.	<input checked="" type="radio"/>	<input type="radio"/>
Event7 will be included in the 01:10:00 time window.	<input checked="" type="radio"/>	<input type="radio"/>

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**QUESTION 5****DRAG DROP**

You need to add Time Series Insights to the solution to meet the pilot requirements.

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

Route telemetry from IoT Hub to a custom event.

Provision Time Series Insights.

Add a custom event hub endpoint to IoT Hub.

Add a new consumer group to the built-in events endpoint of IoT Hub.

Add a data access policy to Time Series Insights for the dashboard web app.

## Answer Area

Correct Answer:





## Actions

Add a custom event hub endpoint to IoT Hub.

Add a new consumer group to the built-in events endpoint of IoT Hub.

## Answer Area

Provision Time Series Insights.

Route telemetry from IoT Hub to a custom event.

Add a data access policy to Time Series Insights for the dashboard web app.

Step 1: Provision Time Series Insights

Select Provision new IoT Hub to create a new IoT hub.

Step 2: Route telemetry from IoT Hub to a custom event.

Step 3: Add a data access policy to Time Series Insights for the dashboard web app

Scenario: Requirements. Pilot Requirements

During the pilot phase, devices will be deployed to 10 offices. Each office will have up to 1,000 devices.

During this phase, you will add Azure Time Series Insights in parallel to Stream Analytics to support real-time graphs and queries in a dashboard web app.



The pilot deployment must minimize operating costs.

Incorrect Answers:

No need to use an endpoint.

Reference:

<https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-update-create-environment>

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