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Question #30

Topic 2

You have two Azure Data Factory instances named ADFdev and ADFprod. ADFdev connects to an Azure DevOps Git repository. You publish changes from the main branch of the Git repository to ADFdev. You need to deploy the artifacts from ADFdev to ADFprod. What should you do first?

- A. From ADFdev, modify the Git configuration.
- B. From ADFdev, create a linked service.
- C. From Azure DevOps, create a release pipeline.
- D. From Azure DevOps, update the main branch.

Question #31

Topic 2

You are developing a solution that will stream to Azure Stream Analytics. The solution will have both streaming data and reference data. Which input type should you use for the reference data?

- A. Azure Cosmos DB
- B. Azure Blob storage
- C. Azure IoT Hub
- D. Azure Event Hubs

Question #32

Topic 2

You are designing an Azure Stream Analytics job to process incoming events from sensors in retail environments. You need to process the events to produce a running average of shopper counts during the previous 15 minutes, calculated at five-minute intervals. Which type of window should you use?

- A. snapshot
- B. tumbling
- C. hopping
- D. sliding

HOTSPOT -

You are designing a monitoring solution for a fleet of 500 vehicles. Each vehicle has a GPS tracking device that sends data to an Azure event hub once per minute.

You have a CSV file in an Azure Data Lake Storage Gen2 container. The file maintains the expected geographical area in which each vehicle should be.

You need to ensure that when a GPS position is outside the expected area, a message is added to another event hub for processing within 30 seconds. The solution must minimize cost.

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Service:

	▼
An Azure Synapse Analytics Apache Spark pool	
An Azure Synapse Analytics serverless SQL pool	
Azure Data Factory	
Azure Stream Analytics	

Window:

	▼
Hopping	
No window	
Session	
Tumbling	

Analysis type:

	▼
Event pattern matching	
Lagged record comparison	
Point within polygon	
Polygon overlap	

You are designing an Azure Databricks table. The table will ingest an average of 20 million streaming events per day.

You need to persist the events in the table for use in incremental load pipeline jobs in Azure Databricks. The solution must minimize storage costs and incremental load times.

What should you include in the solution?

- A. Partition by DateTime fields.
- B. Sink to Azure Queue storage.
- C. Include a watermark column.
- D. Use a JSON format for physical data storage.