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Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

DRAG DROP

Drag and drop the tasks from the left into the correct order on the right for transporting data from sensors to the cloud, in order to extract the machine data and use the cloud-based analytics for predictive maintenance.

Select and Place:

Develop a dashboard for data consumption based on business needs.	
Remove duplicates and send filtered data to cloud.	
Extract information from OPC using custom drivers or DSlink.	
Interface the machine sensors using OPC based middleware.	
Process real time critical alerts for immediate action.	

Correct Answer:

	Develop a dashboard for data consumption based on business needs.
	Interface the machine sensors using OPC based middleware.
	Extract information from OPC using custom drivers or DSlink.
	Remove duplicates and send filtered data to cloud.
	Process real time critical alerts for immediate action.

QUESTION 2

What are two functionalities of edge data services? (Choose two.)

A. creating a machine learning data model

B. supporting many interfaces and APIs

C. applying advanced data analytics

D. filtering, normalizing and aggregating data

E. saving data for a prolonged time period

Correct Answer: DE

QUESTION 3

```
FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs:latest

RUN opkg update && opkg install python
COPY sample.py /usr/bin/sample.py


CMD /usr/bin/sample.py
```

Refer to the exhibit. Which line of code completes the Dockerfile?

A. RUN chmod 777 /usr/bin/sample.py

B. RUN chown root:root /usr/bin/sample.py

C. WORKDIR /usr/bin
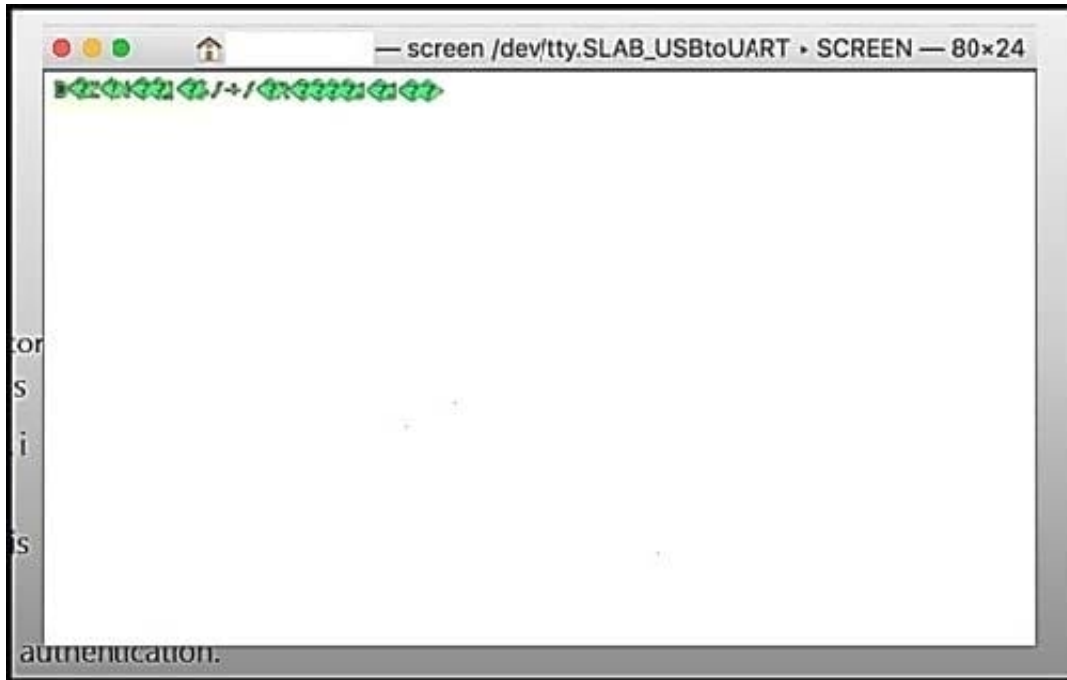
D. USER root

Correct Answer: A

QUESTION 4

A company is collecting data from several thousand machines globally. Which software component in the overall architecture is the next destination of the dataflow after the data has been gathered and normalized on the edge data software?

A. relational database: MySQL

B. historian database: influxDB

C. message broker: Apache Kafka

D. dashboard: Node.js web app

Correct Answer: B

QUESTION 5

Refer to the exhibit. When a laptop is connected to a device via a serial connection, which action makes the output readable?

A. Change the baudrate in the connection settings.

B. Reboot the device in case a firmware error is the issue.

C. Change the power level of the device.

D. Change the unicode settings to UTF-8.

Correct Answer: A

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