



# 300-915<sup>Q&As</sup>

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

When an RS232 device is connected to a Cisco IR829 router, the data collected is not being parsed correctly by the edge application.

Which two steps should be taken to troubleshoot the issue? (Choose two.)



- A. SSH access on the Cisco IR829 router must be enabled for IOx Guest OS.
- B. Communication mode must be set to half duplex over serial connection.
- C. Serial cable length should not exceed 1.5 meters.
- D. Ensure that communication parameters like baud rate and parity are set correctly.
- E. Set the cable connections based on the PIN layout from the sensor vendor.

Correct Answer: DE

### QUESTION 3

#### DRAG DROP

An application needs to calculate if the product meets a determined quality specification, activate an automation to remove poor quality products, and report detailed results back to the cloud. All data are captured from an application that is connected to a sensor. Using the SDK of the cloud provider, drag and drop the tasks that must be completed from the left to the right. Not all options are used.

Select and Place:

code function for detection
quality specification of product
credentials for network and cloud operations
sensor function with sensor SDK
user interaction with the application
cloud function communication with cloud SDK
product removal function


Correct Answer:

credentials for network and cloud operations
user interaction with the application

code function for detection
quality specification of product
sensor function with sensor SDK
cloud function communication with cloud SDK
product removal function



#### QUESTION 4

Which method is used to gather data from a sensor?

- A. Configure the edge application to push data to the cloud.
- B. Set up a rendezvous point where the sensor and edge application meet.
- C. Set up a dedicate process for each sensor that grabs data.
- D. Pull data from the sensor.

Correct Answer: A

#### QUESTION 5

```
FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs as builder
RUN opkg update
RUN opkg install iox-toolchain
RUN mkdir -p /var/helloworld/
COPY helloworld.c /var/helloworld/
WORKDIR /var/helloworld/
RUN gcc helloworld.c -o helloworld

FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs
RUN mkdir -p /var/helloworld/
COPY --from=builder /var/helloworld/helloworld /var/helloworld
RUN chmod +x /var/helloworld/helloworld
COPY init_app.sh /etc/init.d/
RUN chmod +x /etc/init.d/init_app.sh
RUN update-rc.d init_app.sh defaults
```

Refer to the exhibit. When a Docker image is built using this Dockerfile, which two statements are valid on Cisco IOx 1.8 and before? (Choose two.)

- A. It builds an image that can be executed on all Cisco platforms.
- B. It builds a Docker image that cannot be used directly on Cisco IOx.
- C. It compiles a "hello world" program in C.
- D. It creates two separate images.
- E. It builds an IOx package that can be deployed directly.



Correct Answer: BC

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