

300-915^{Q&As}

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

As part of an IoT project, an organization is developing an edge application that will run on a gateway to securely transmit sensor information it receives into an IoT cloud. Based on the Agile software development lifecycle, the development team is planning to implement a CI/CD pipeline.

Which two methods should be suggested to make the software development lifecycle more secure during the implementation and testing? (Choose two.)

- A. Perform automated code reviews prior to deployment.
- B. Implement auto-provisioning security inspection for the code.
- C. Perform on-going penetration testing on the system.
- D. Perform a GAP analysis on current security activities and policies.
- E. Train members of the team in a secure software development lifecycle methodology such as OWASP.

Correct Answer: DE

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

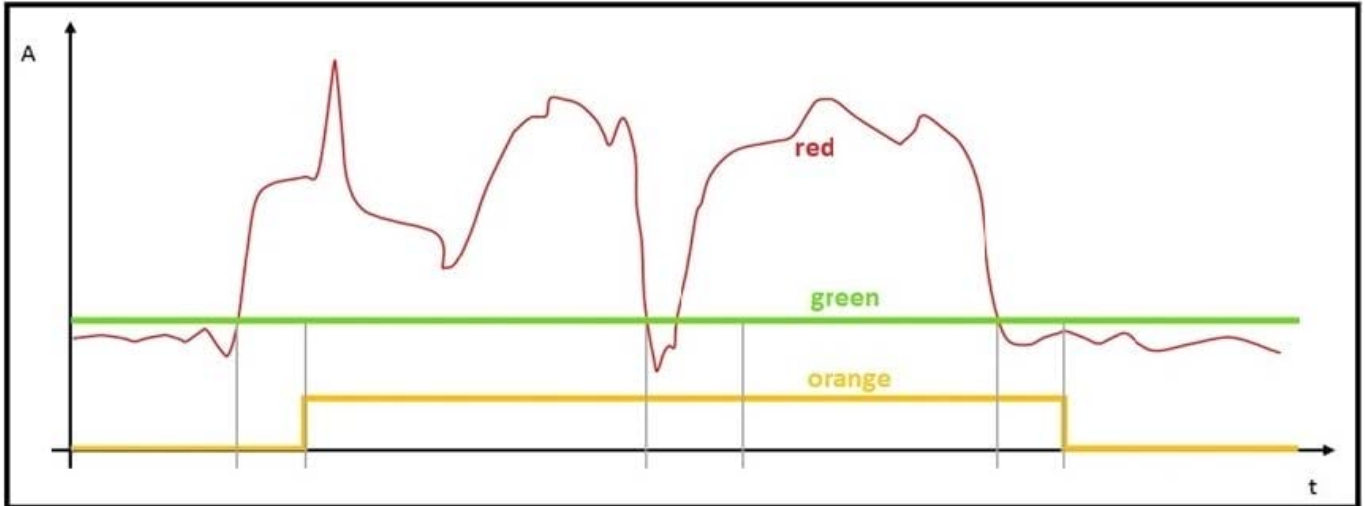
QUESTION 3

Which connector is southbound?

- A. horizontal connector
- B. cloud connector
- C. device connector
- D. universal connector

Correct Answer: C

QUESTION 4



Refer to the exhibit. The graph has been provided by the monitoring team to the IoT Engineer. The red line represents the consumption of energy from an industrial machine.

Which two pieces of information can be captured? (Choose two.)

- A. The green graph visualizes the mean value of the data points.
- B. The green graph visualizes if the electronic device is not in stand-by mode.
- C. The orange graph visualizes a boolean: power on/off.
- D. The orange graph contains more information than the red graph.

Correct Answer: AC

QUESTION 5

A sensor reads potentially critical data from an industrial device, but most of the data from the sensor is not critical information and does not change unless a critical event happens.

Which data work flow is appropriate for how the critical and non-critical data is processed?

- A. 1. Acquire sensor data.
- 2. Filter non-actionable data.
- 3. Perform action on data.

4.

Send critical data and action performed on data to cloud for storing.

B. 1. Acquire sensor data.

2.

Send data to cloud for processing and to determine action.

3.

Send required action back to edge for action completion.

4.

Perform action on data.

C. 1. Acquire sensor data.

2.

Filter non-actionable data.

3.

Perform action on data.

D. 1. Acquire sensor data.

2.

Perform action on data.

3.

Send data and action performed on data to cloud for recording.

Correct Answer: D

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