

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

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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**QUESTION 1**

Which data visualization technique should be used to represent an important single metric on a dashboard?

- A. heatmap
- B. scatter plot
- C. gauge
- D. treemap

Correct Answer: C

**QUESTION 2**

```
descriptor-schema-version: "2.4"

info:
  name: hello world
  description: "Hello world lxc type application"
  version: "1.0"
  author-link: "http://www.cisco.com"
  author-name: "Cisco Systems"

app:
  type: 
  cpuarch: x86_64
  resources:
    profile: custom
    cpu: 200
    memory: 64
    disk: 2

    network:
      -
        interface-name: eth0
# Specify runtime and startup
startup:
  rootfs: rootfs.tar
  target: "/var/helloworld/helloworld"
```

Refer to the exhibit. While troubleshooting an error on an application descriptor for a Docker app in Cisco IOx (package.yaml), the app type appears to be missing. Which app type must be added to the snippet to resolve the issue?

- A. paas
- B. docker-vm
- C. docker
- D. docker-app

Correct Answer: C

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### QUESTION 3

An IoT application has been built into the application CI/CD pipeline. The application needs credentials to access other applications, APIs, and cloud resources.

When should the credentials be inserted into the application using the CI/CD process?

- A. hard coded into your application code base
- B. during application runtime
- C. after application testing
- D. during application build time

Correct Answer: A

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### QUESTION 4

Which command is used to package a Docker-style Cisco IOx app using ioxclient?

- A. ioxclient docker create helloworld:1.0.
- B. ioxclient docker-app helloworld:1.0.
- C. ioxclient docker package helloworld:1.0.
- D. ioxclient docker helloworld:1.0.

Correct Answer: C

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### QUESTION 5

Which action should be taken when a southbound device is not connecting?

- A. Verify the gateway link status.

- B. Review the edge application logs.
- C. Verify the sensor status.
- D. Redeploy the edge application.

Correct Answer: A

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#### QUESTION 6

Mosquitto was installed correctly on the Cisco IR829 router as a Cisco IOx application. When the sensor is connected to the broker on the Cisco IR829 router with the default port, the connection is refused (Error Code 5).

Which action should be done to resolve the issue?

- A. Insert in the IOS config: `ip nat inside source static tcp 1883 interface GigabitEthernet0 1883`
- B. Insert in the `package_config.ini` file under section ports: `tcp: ["8883"]`
- C. Use the correct username and password.
- D. Insert in the `package.yaml` file under section ports: `tcp: ["1883"]`

Correct Answer: C

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#### QUESTION 7

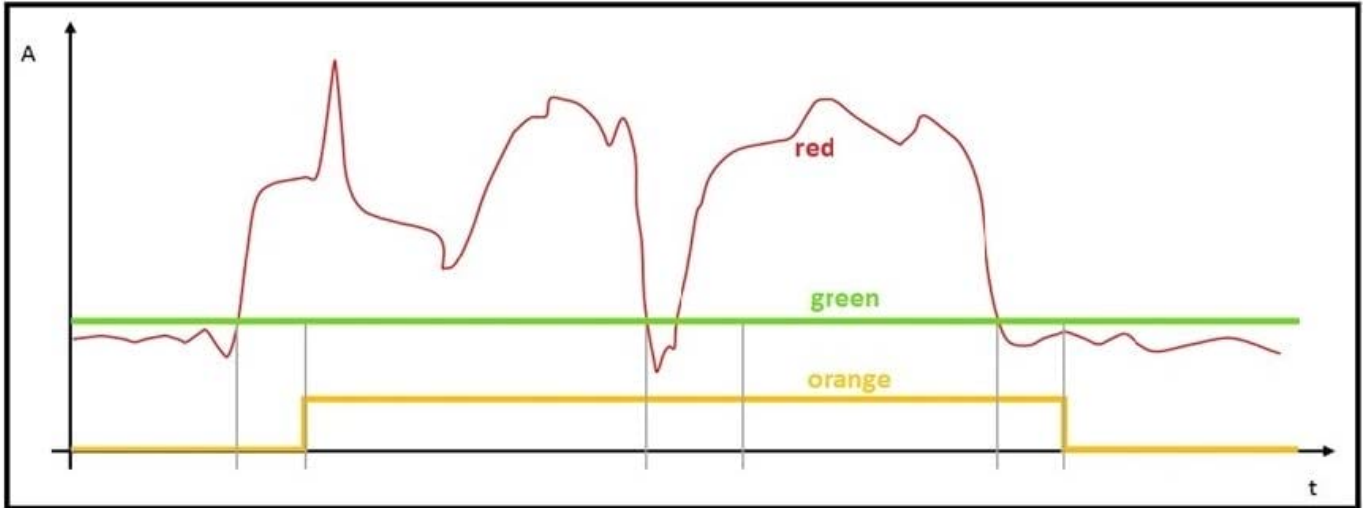
Which two data sources are used with a visualization tool such as Grafana? (Choose two.)

- A. Microsoft Power BI
- B. Kibana
- C. InfluxDB
- D. Elasticsearch
- E. Tableau

Correct Answer: CD

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#### QUESTION 8



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 9

When trying to subscribe to an MQTT broker on the internet, the MQTT client is on a private subnet and must be NATed to reach the public broker.

What is the expected outcome when this configuration is in place?

- A. The client periodically reconnects to the default gateway.
- B. The client connects only once using the PENDING message to the broker.
- C. The client periodically reconnects to the broker over the NAT connection.
- D. The client connects only once using the CONNECT message to the broker.

Correct Answer: D

### QUESTION 10

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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