

➤ **Vendor:** Cisco

➤ **Exam Code:** 300-915

➤ **Exam Name:** Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

➤ **New Updated Questions from** [Braindump2go](#) (Updated in Dec./2020)

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QUESTION 20

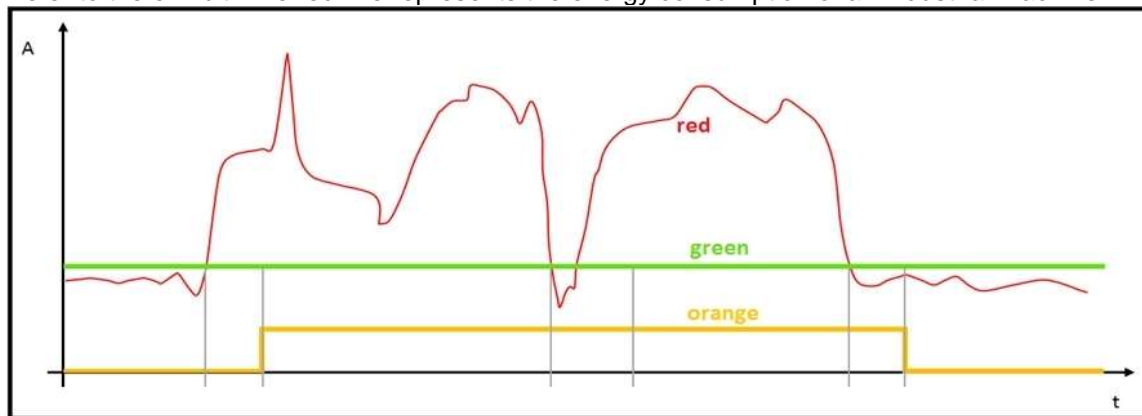
What are two functionalities of edge data services? (Choose two.)

- 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

Answer: DE

QUESTION 21

Refer to the exhibit. The red line represents the energy consumption of an industrial machine.



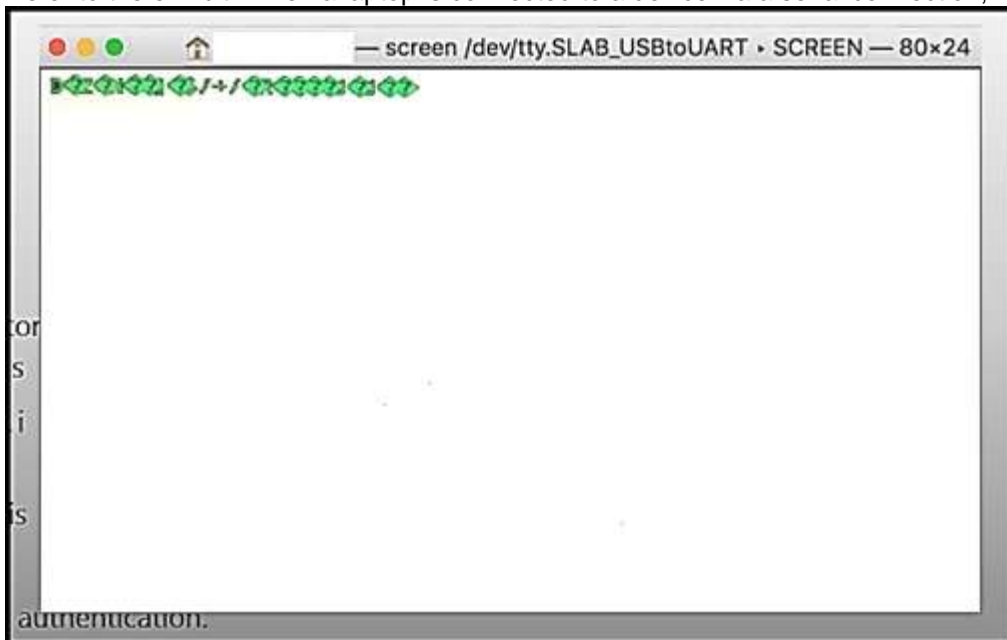
Which two statements about the graphs are true? (Choose two.)

- A. The orange graph is expected to drop to zero for a brief period around the midpoint on the x axis.
- B. The red graph contains the raw data points.
- C. The green graph is the mean value of the data points.
- D. The green graph does not give us any valuable information.
- E. The orange graph has three values on the y-axis.

Answer: BC

QUESTION 22

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.

Answer: A

QUESTION 23

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

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

Answer: A

QUESTION 24

Refer to the exhibit. The code and the error message that are received when the code is run is presented.

```
import requests
import time

api_token = "ddd906922b8581e3.VoNzzzNgeYmKIgJg5AEPxGe-nHP2nJzn9n_Wv_-gAHY"
organization_id = 900
api_url_base = "https://eu.ciscokinetic.io/api/v2/"
headers = {"Content-Type": "application/json",
           "Authorization": "Token {}".format(api_token)}

r = requests.get(api_url_base+"organizations/{}/gate_ways".format(organization_id), headers=headers)

if r.status_code == requests.codes.ok:
    output = r.json()
else:
    print("Error {}. Message: {}".format(r.status_code, r.content))

Error 401. Message: b'{"error_code": "invalid_api_token", "errors": ["Invalid API token, authentication failure."]}
```

What causes issues authenticating with Cisco GMM API using the web-generated API key?

- A. firewall that blocks authentication ports
- B. incorrect username and password
- C. incorrect GMM Cluster selection
- D. incorrect key size and data encryption

Answer: B

QUESTION 25

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.

Answer: DE

QUESTION 26

Which option is a commonly used network layer protocol in an IoT environment?

- A. RPL
- B. AQMP
- C. MQTT
- D. XMPP
- E. CoAP

Answer: A

QUESTION 27

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

Answer: B

QUESTION 28

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

Answer: C

QUESTION 29

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.

Answer: D

QUESTION 30

Which two states are applications expected to be seen in when they are managed on Cisco IOx? (Choose two.)

- A. DEACTIVATED
- B. ACTIVATED
- C. ALLOWED
- D. STOPPED
- E. VALIDATED

Answer: BD

QUESTION 31

Which connector is southbound?

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

Answer: C

QUESTION 32

When constructing a Python script for data extraction using GMM APIs on a Cisco Kinetic Cloud platform, how should the API authentication be implemented?

- A. Generate the API keys once and edit the permissions as needed.
- B. Generate and use the API keys for the required access level from the Kinetic Cloud application.
- C. Use a complex username and password with 128-bit encryption.
- D. Use a complex username with an auto-generated password from the Kinetic Cloud application.

Answer: B