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**Cisco**

# 300-915

*Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT)*

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Question #52 Section 1

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 <CAF IP> 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"]

Answer: C

Question #53 Section 1

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 #54 Section 1



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 #55 Section 1



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 #56 Section 1

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.

**Answer:** A

Question #57 Section 1

```
import requests
import time

api_token = "ddd906922b8581e3.VoNzzzNgsYmKIgJg5AEPxGe-nNFZnJzn9n_Wv_-gAHY"
organization_id = 900
api_url_base = "https://eu.ciscokinetic.io/api/v2/"
headers = {"Content-Type": "application/json",
           "Authorization": "Token {0}".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("Errorr {}. Message: {}".format(r.status_code, r.content))
```

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

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

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 #58 Section 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.

**Answer: DE**

Question #59 Section 1

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.

**Answer: C**

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