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## Question 1

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**Question Type:** MultipleChoice

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

### Options:

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- 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:

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C

## Question 2

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**Question Type:** MultipleChoice

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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.)

**Options:**

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- 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:**

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D, E

## Question 3

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**Question Type: MultipleChoice**

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Refer to the exhibit.

```
import requests
import time

api_token = "ddd906922b8581e3.VoNzzzNgsYmKIgjjg5AEPxGe-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."}]'
```

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?

**Options:**

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

**Answer:**

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B

## Question 4

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**Question Type:** MultipleChoice

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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?

**Options:**

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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:**

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C

## Question 5

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**Question Type: MultipleChoice**

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An IoT engineer is working on a connected machines project.

Which two protocols must be used during the data provisioning process when data is sent from the shop floor IoT system to the customer's public cloud? (Choose two.)

**Options:**

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**A-** COAP

**B-** Modbus TCP

- C- MQTT
- D- AMQP
- E- OPC-DA

**Answer:**

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C, D

## Question 6

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**Question Type:** MultipleChoice

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Refer to the exhibit.



Approximately 4000 oil platforms, each with 400 sensors, are spread in the Gulf of Mexico and all of their data must come together into one dashboard. Which general architecture should be selected to connect them?

**Options:**

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**A-** 4-tier: sensor -- edge device (Intel Atom CPU) -- fog device (Intel Xeon CPU) -- cloud

**B-** 5-tier: intelligent sensor-- edge device (Intel Atom CPU) -- fog device (Intel Xeon CPU) -- edge data center (Intel Xeon CPU)



**C-** 2-tier: intelligent sensor -- cloud

**D-** 3-tier: sensor -- edge device (Intel Atom CPU) -- cloud

**Answer:**

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B

## Question 7

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**Question Type:** MultipleChoice

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In a secure software development lifecycle process, what must be created as soon as the architecture is in place?

**Options:**

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**A-** integration plan

**B-** test plan

**C-** functional specification document

**D-** threat modeling

**Answer:**

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C

## Question 8

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**Question Type:** MultipleChoice

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An IOx application is installed via Local Manager. Every time the application is started, it instantly stops.

Which troubleshooting steps should be taken?

**Options:**

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- A- There is something wrong with the application code itself.
- B- Check the startup and entrypoint parameters.
- C- Give the IOx application more CPU units.
- D- Check local IOx settings, especially the network settings.

**Answer:**

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C

## Question 9

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**Question Type:** MultipleChoice

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Which two security approaches help build a strong authentication scheme? (Choose two.)

### Options:

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- A- connection based on location
- B- session IDs accepted only from cookies
- C- maximum allowed connections
- D- user logout
- E- session logout because of inactivity

### Answer:

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C, E

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