



300-915^{Q&As}

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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**QUESTION 1**

Which statement explains the correct position of a PLC within the CPwE architecture?

- A. PLCs are always part of Level 0 ?process control.
- B. PLCs are part of Level 4 ?site business planning.
- C. PLCs are part of Level 1 ?basic control.
- D. PLCs are placed at Level 2 ?area supervisory control.

Correct Answer: C

QUESTION 2

A network is being configured for an Ethernet-connected sensor. The sensor fails to send data to the configured destination. The IP address of the sensor can be pinged from a laptop on the same subnet. When a different subnet is used, the sensor cannot be reached, but other clients on the same subnet are still accessible.

What are two reasons for the connectivity problem? (Choose two.)

- A. wrong DNS server on the sensor
- B. wrong subnet mask on your laptop
- C. wrong default gateway on the sensor
- D. wrong default gateway on your laptop
- E. wrong subnet mask on the sensor

Correct Answer: CE

QUESTION 3

Mosquito 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

**QUESTION 4**

How does the Cisco router (IR) and switch (IE) portfolio support edge data services?

- A. Edge data services can be run and managed as containers using Cisco IOx.
- B. Edge data services can run only in virtual machines on a separate compute layer.
- C. Edge data services are aliases for IR/IE configuration services.
- D. Edge data services run as separate instances only on virtual machines.

Correct Answer: C

QUESTION 5**DRAG DROP**

An engineering team developed a solution that gathers data via a proprietary protocol (TCP/IP based) to a IR1101 gateway, which then sends the data to the cloud. Drag and drop the action steps from the left into the correct order on the right to get this solution to operate. Not all options are used.

Select and Place:

The sensor is sending data to the cloud.	
The sensor and IR1101 is locally installed (power, network connectivity).	
The edge application is being installed on the IR1101.	
The streaming payload is visible in Kinetic GMM dashboard.	
A device twin is automatically created in the cloud.	
IR1101 is claimed via API on Kinetic GMM.	

Correct Answer:



The sensor is sending data to the cloud.

The sensor and IR1101 is locally installed (power, network connectivity).

The edge application is being installed on the IR1101.

The streaming payload is visible in Kinetic GMM dashboard.

A device twin is automatically created in the cloud.

IR1101 is claimed via API on Kinetic GMM.

QUESTION 6

```
"/Users/venv/bin/python" "/Users/Documents/Coding Projects/fkf3/main.py"
log: Sending CONNECT (u1, p1, wr0, wq0, wf0, c1, k60) client_id=b'python'
log: Sending SUBSCRIBE (d0, m1) [(b'eschbornoffice/things/FCD6BD00001913F4/uplink', 0)]
log: Sending SUBSCRIBE (d0, m2) [(b'eschbornoffice/things/FCD6BD0000191405/uplink', 0)]
log: Sending SUBSCRIBE (d0, m3) [(b'eschbornoffice/things/FCD6BD00001913FC/uplink', 0)]
log: Sending SUBSCRIBE (d0, m4) [(b'eschbornoffice/things/FCD6BD00001913F2/uplink', 0)]
log: Received CONNACK (0, 0)
Result code 0
log: Received SUBACK
log: Received SUBACK
log: Received SUBACK
log: Received SUBACK
```

Refer to the exhibit. Which two statements about MQTT messaging are true? (Choose two.)

- A. Result code 5 means the connection is accepted; result code 0 means the connection is "refused, not authorized".
- B. Redundant ClientIDs are supported by MQTT brokers.
- C. MQTT does not support a "keep alive" functionality because it runs on top of TCP.
- D. Result code 0 means the connection is accepted; result code 5 means the connection is "refused, not authorized".
- E. Brokers can send the Last Will and Testament messages on behalf of the client.

Correct Answer: DE

QUESTION 7



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

- A. integration plan
- B. test plan
- C. functional specification document
- D. threat modeling

Correct Answer: C

QUESTION 8

```
{
  "set1": {
    "Source.IP": "192.168.0.52",
    "Source.Port": 443,
    "Destination.IP": "192.168.0.55",
    "Destination.Port": 44447,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "131",
    "Total.Fwd.Packets": "8"
  },
  "set2": {
    "Source.IP": "192.168.0.48",
    "Source.Port": 80,
    "Destination.IP": "192.168.0.49",
    "Destination.Port": 5000,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "246",
    "Total.Fwd.Packets": "21"
  },
  "set3": {
    "Source.IP": "192.168.5.50",
    "Source.Port": 8000,
    "Destination.IP": "10.0.0.91",
    "Destination.Port": 8000,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "567",
    "Total.Fwd.Packets": "321"
  },
  "set4": "Output shorted..."
}
```



Refer to the exhibit. The code snippet provides information about the packet captures within a network.

How can the most used source IP addresses within a specific time be visualized?

- A. line graph
- B. bar histogram
- C. scatter plot
- D. heatmap

Correct Answer: B

QUESTION 9

An IoT engineer is responsible for security at an organization. Humans and machines need to be allowed to access services like database or compute on AWS. The engineer decides to implement dynamic secrets.

Which method helps to get this implementation accurate from a security point of view?

- A. Create a central secret system for humans and machine to obtain very short-lived dynamic secrets to access any service.
- B. Humans cannot be trusted, and each time they authenticate they should be issued with dynamic secrets. Machines can be trusted, and they can be issued with static credentials.
- C. Maintain a different service associated to secret systems to issue access.
- D. After a user is authenticated by any trusted system, the user can be trusted to use any service.

Correct Answer: A

QUESTION 10

The environment for an Industrial IoT project in a large open pit mine is being scoped. The location has a large amount of dust and the device will be exposed to less than 1 meter of water temporarily.

When the edge device is being chosen, which Ingress protection rating must be used?

- A. IP37
- B. IP61
- C. IP67
- D. IP76

Correct Answer: C
