



Vendor: Cisco

Exam Code: 300-915

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

Version: DEMO

QUESTION 1

Refer to the exhibit. When a Docker image is built using this Dockerfile, which two statements are valid on Cisco IOx 1.8 and before? (Choose two.)

```
FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs as builder
RUN opkg update
RUN opkg install iox-toolchain
RUN mkdir -p /var/helloworld/
COPY helloworld.c /var/helloworld/
WORKDIR /var/helloworld/
RUN gcc helloworld.c -o helloworld

FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs
RUN mkdir -p /var/helloworld/
COPY --from=builder /var/helloworld/helloworld /var/helloworld
RUN chmod +x /var/helloworld/helloworld
COPY init_app.sh /etc/init.d/
RUN chmod +x /etc/init.d/init_app.sh
RUN update-rc.d init_app.sh defaults
```

- A. It builds an image that can be executed on all Cisco platforms.
- B. It builds a Docker image that cannot be used directly on Cisco IOx.
- C. It compiles a "hello world" program in C.
- D. It creates two separate images.
- E. It builds an IOx package that can be deployed directly.

Answer: BC

QUESTION 2

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

```
"/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
```

- 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.

Answer: DE

QUESTION 3

When an RS232 device is connected to a Cisco IR829 router, the data collected is not being parsed correctly by the edge application.

Which two steps should be taken to troubleshoot the issue? (Choose two.)

- A. SSH access on the Cisco IR829 router must be enabled for IOx Guest OS.
- B. Communication mode must be set to half duplex over serial connection.
- C. Serial cable length should not exceed 1.5 meters.
- D. Ensure that communication parameters like baud rate and parity are set correctly.
- E. Set the cable connections based on the PIN layout from the sensor vendor.

Answer: DE

QUESTION 4

Which connector is southbound?

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

Answer: C

QUESTION 5

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

QUESTION 6

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.

Answer: A

QUESTION 7

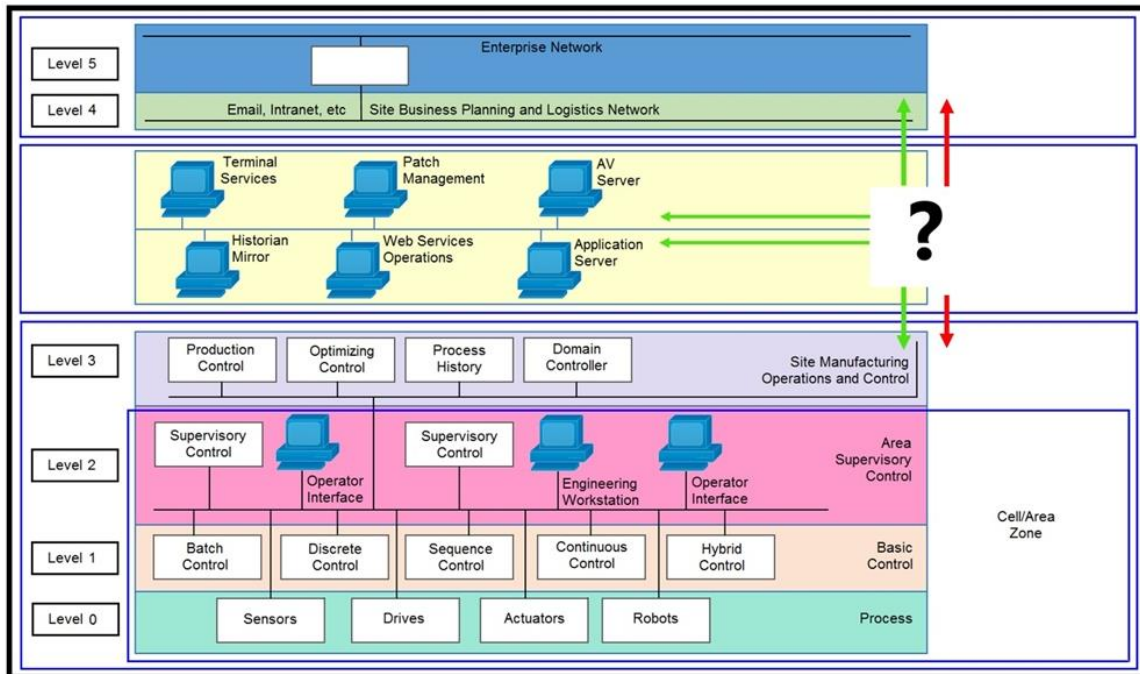
Which statement explains the correct position of a PLC within the CPwE architecture?

- 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.

Answer: C

QUESTION 8

Refer to the exhibit. Which product must be positioned where the "?" is placed to connect these different network levels?



- A. firewall
- B. switch
- C. router
- D. wireless access port

Answer: C

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