DUMPSQUEEN

Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT)

Cisco 300-915

Version Demo

Total Demo Questions: 10

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QUESTION NO: 1

```
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
```

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.)

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: B C

QUESTION NO: 2

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

ANSWER: C

QUESTION NO: 3

As part of an IoT project, an organization is developing an application that will share multiple clients using a REST API.

Based on the software development process, what are two valid technical activities that can be suggested to secure the REST API that is developed during the development of the software? (Choose two.)

A. Respond to request failures in detail to allow users for easier troubleshooting.

B. Implement HTTP whitelisting to only methods that are allowed.

C. Implement and review audit logs for security-related events.

D. Reject HTTP methods that are invalid with an error code 404.

E. Implement physical firewalling and access control to the resources.

ANSWER: B D

QUESTION NO: 4

Which two statements about how to provision and manage data originators in a cloud environment are true? (Choose two.)

A. The provisioning of digital identities is the responsibility of the data originators.

B. Cloud providers offer services for automated device provisioning, which allows the lifecycle of the cloud-representation for data originators to be managed.

C. Cloud providers offer application programming interfaces, which allow a programmatic provisioning of data originators.

D. There is no need to provision and manage access for data originators in the cloud.

E. The access to public clouds must be configured and managed manually.

ANSWER: C E

QUESTION NO: 5

After an application is deployed, potential issues arise around connectivity. As part of the troubleshooting process, the IP address must be determined to ensure end-to-end communication.

Which method provides the required details using the Cisco IOx CLI?

A. ioxclient application status

B. ioxclient application metrics

C. ioxclient application getconfig

D. ioxclient application info

ANSWER: D

QUESTION NO: 6

Where are edge data services typically instantiated?

A. at the edge of network

B. in the cloud

C. in the data center

D. in a private cloud

ANSWER: A

QUESTION NO: 7

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: D E

QUESTION NO: 8

```
FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs:latest

RUN opkg update && opkg install python
COPY sample.py /usr/bin/sample.py
┌────────────────────────────────┐
│                                │
└────────────────────────────────┘

CMD /usr/bin/sample.py
```

Refer to the exhibit. Which line of code completes the Dockerfile?

A. RUN chmod 777 /usr/bin/sample.py

B. RUN chown root:root /usr/bin/sample.py

C. WORKDIR /usr/bin

D. USER root

ANSWER: A

QUESTION NO: 9 - (DRAG DROP)

DRAG DROP

An application needs to calculate if the product meets a determined quality specification, activate an automation to remove poor quality products, and report detailed results back to the cloud. All data are captured from an application that is connected to a sensor. Using the SDK of the cloud provider, drag and drop the tasks that must be completed from the left to the right. Not all options are used.

Select and Place:

| code function for detection |
| quality specification of product |
| credentials for network and cloud operations |
| sensor function with sensor SDK |
| user interaction with the application |
| cloud function communication with cloud SDK |
| product removal function |

ANSWER:

code function for detection	code function for detection
quality specification of product	quality specification of product
credentials for network and cloud operations	sensor function with sensor SDK
sensor function with sensor SDK	cloud function communication with cloud SDK
user interaction with the application	product removal function
cloud function communication with cloud SDK	
product removal function	

Explanation:

QUESTION NO: 10

```
descriptor-schema-version: "2.4"

info:
  name: hello world
  description: "Hello world lxc type application"
  version: "1.0"
  author-link: "http://www.cisco.com"
  author-name: "Cisco Systems"

app:
  type: [          ]
  cpuarch: x86_64
  resources:
    profile: custom
    cpu: 200
    memory: 64
    disk: 2

    network:
      -
        interface-name: eth0
# Specify runtime and startup
  startup:
    rootfs: rootfs.tar
    target: "/var/helloworld/helloworld"
```

Refer to the exhibit. While troubleshooting an error on an application descriptor for a Docker app in Cisco IOx (package.yaml), the app type appears to be missing. Which app type must be added to the snippet to resolve the issue?

A. paas

B. docker-vm

C. docker

D. docker-app

ANSWER: C