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Question 1

Question Type: MultipleChoice

An IoT application has been built into the application CI/CD pipeline. The application needs credentials to access other applications, APIs, and cloud resources.

When should the credentials be inserted into the application using the CI/CD process?

Options:

- A- hard coded into your application code base
- B- during application runtime
- C- after application testing
- D- during application build time

Answer:

A

Question 2

Question Type: MultipleChoice

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?

Options:

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

Answer:

C

Question 3

Question Type: DragDrop

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.

The sensor is sending data to the cloud.

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

Question 4
The edge application is being installed on the IR1101.

Question Type: MultipleChoice

The streaming payload is visible in Kinetic GMM dashboard.

Which two statements define the mechanism for console access of the Guest Operating System from the Cisco IR829 router? (Choose two.)
A device twin is automatically created in the cloud.

Options
IR1101 is claimed via API on Kinetic GMM.

- A- The Guest OS can be accessed by default on Telnet port 2070 from the Cisco IR829 console.
- B- The Guest OS console is available directly by the AUX port 3362 from the Cisco IR829 router.
- C- The Guest OS can be accessed directly using the console port on the Cisco IR829 router.

- D- The Guest OS can be accessed by initiating SSH from the Cisco IR829 console.
- E- The Guest OS console is available only when a static IP is configured on the host.

Answer:

A, D

Question 5

Question Type: MultipleChoice

What is a major difference of MQTT in terms of design compared to AMQP?

Options:

- A- MQTT requires more bandwidth.
- B- MQTT has very low overhead.
- C- MQTT has more advanced routing features for messages.
- D- MQTT provides routing based on headers.

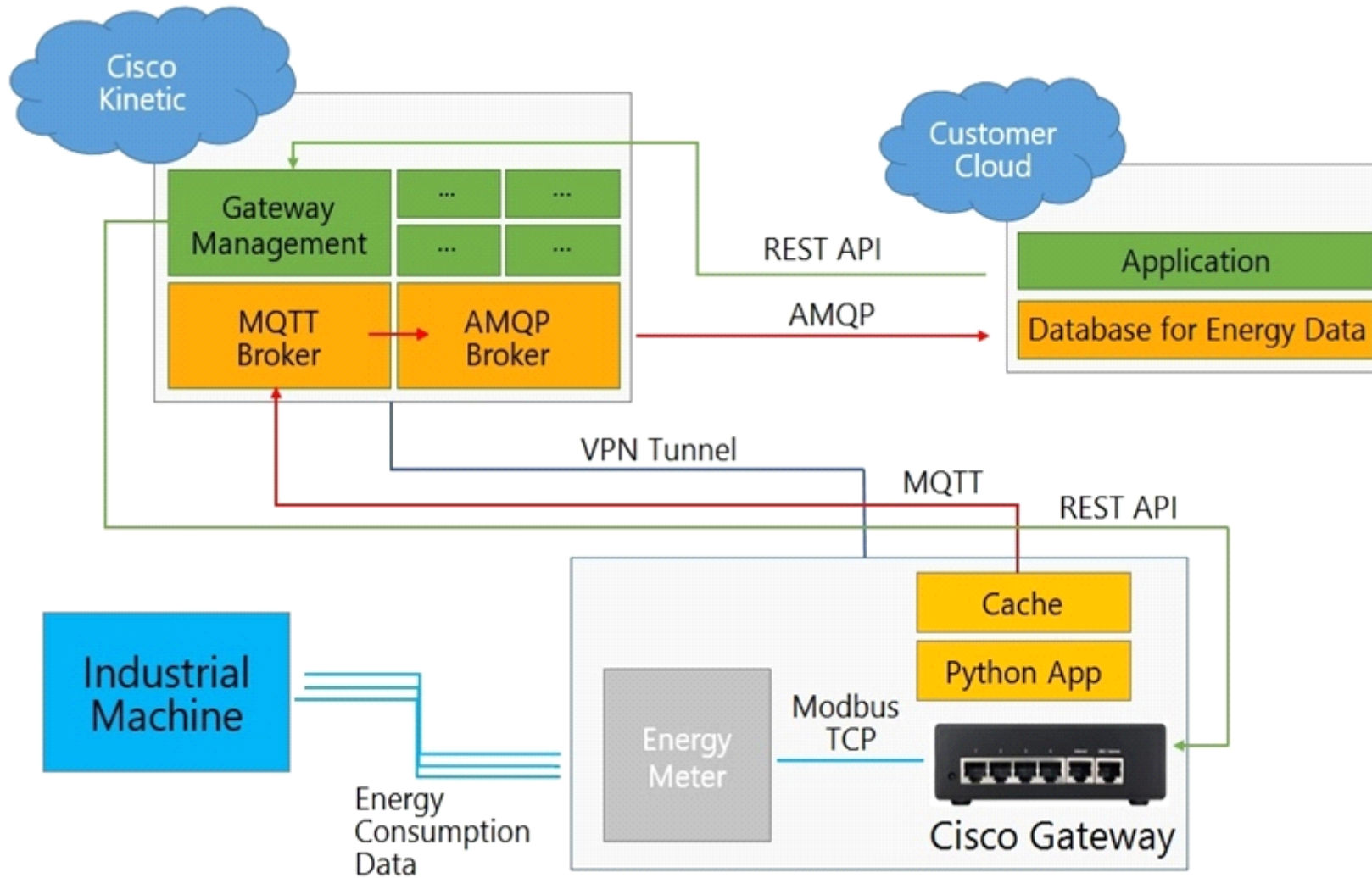
Answer:

B

Question 6

Question Type: MultipleChoice

Refer to the exhibit.



Which two statements about data flow are true? (Choose two.)

Options:

- A- Another AMQP broker should be implemented on the customer cloud.
- B- Instead of AMQP, MQTT should be used for compatibility issues in a cloud-to-cloud connection.
- C- A VPN tunnel is not necessary because the MQTT payload is encrypted by default.
- D- The gateway must stay constantly connected to the Kinetic cloud to avoid blank data sets, even when using caching functions.
- E- The Python application could use the paho-mqtt library.

Answer:

B, E

Question 7

Question Type: MultipleChoice

Refer to the exhibit.


```
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"
```

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?

Options:

- A- paas
- B- docker-vm
- C- docker
- D- docker-app

Answer:

C

Question 8

Question Type: MultipleChoice

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

Options:

- 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.

Answer:

C

Question 9

Question Type: DragDrop

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.

code function for detection

Answer: quality specification of product

credentials for network and cloud operations

Question 10

sensor function with sensor SDK

Question Type: Multiple Choice

user interaction with the application

cloud function communication with cloud SDK

Refer to the exhibit.

```
"/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
```

Which two statements about MQTT messaging are true? (Choose two.)

Options:

- 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:

D, E

Question 11

Question Type: MultipleChoice

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.)

Options:

- 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 12

Question Type: MultipleChoice

Refer to the exhibit.

```
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
```

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

Options:

- 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

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