QUESTION 15

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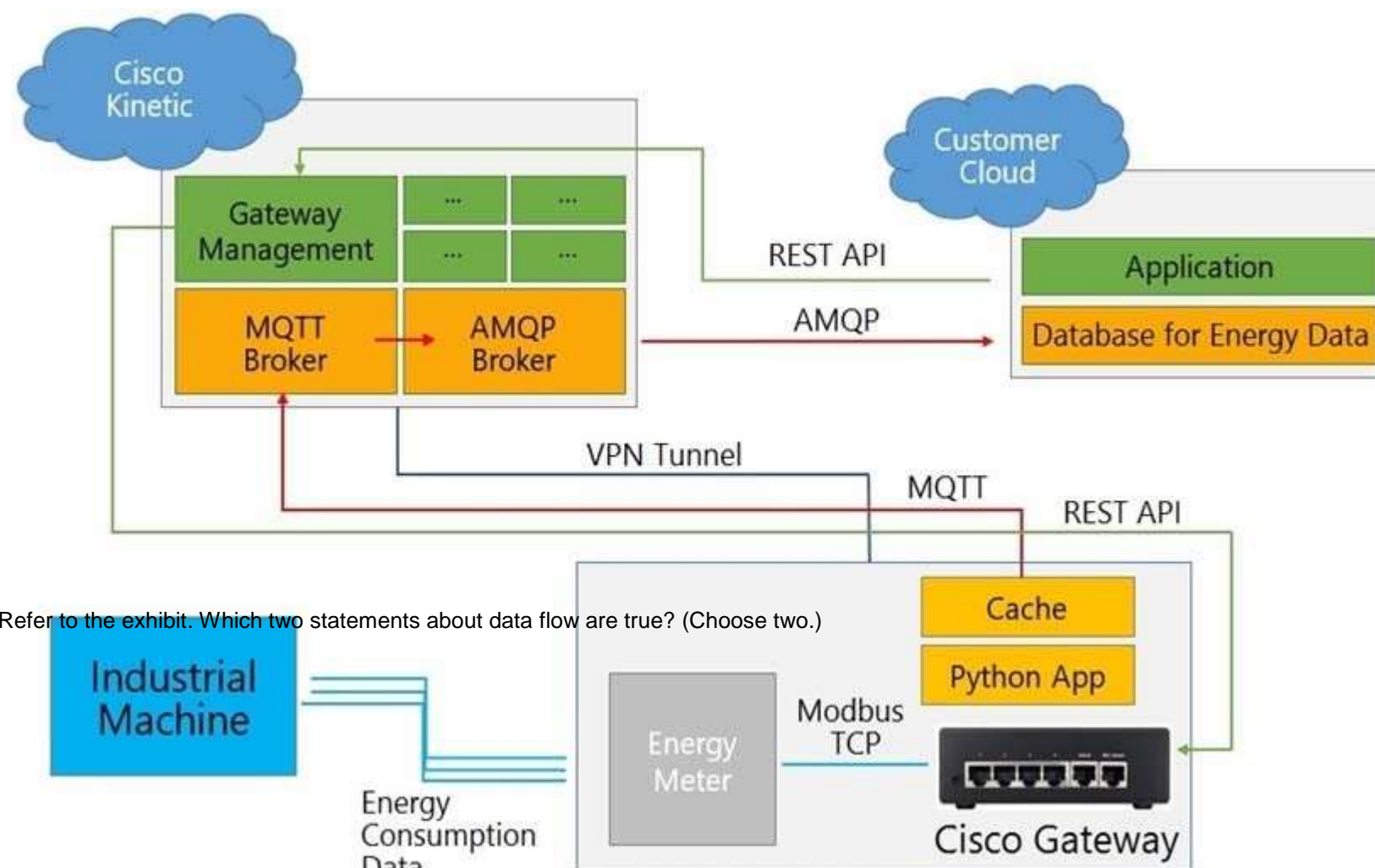
Refer to the exhibit. While troubleshooting an error on an application descriptor for a Docker app in Cisco IOx (package.yaml), the app type appears to be missing. Which app type must be added to the snippet to resolve the issue?

A. **paas**
B. **docker-vm**
C. **docker**
D. **docker-app Correct**

Answer: C QUESTION 16

Refer to the exhibit. Which two statements about data flow are true? (Choose two.)

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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.

Correct Answer: BE

QUESTION 17
What is a major difference of MQTT in terms of design compared to AMQP?

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.

Correct Answer: B

QUESTION 18
Which two statements define the mechanism for console access of the Guest Operating System from the Cisco IR829 router? (Choose two.)

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.

Correct Answer: AD

QUESTION 19
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 sensor and IR1101 is locally installed (power, network connectivity).	The edge application is being installed on the IR1101.
The edge application is being installed on the IR1101.	The streaming payload is visible in Kinetic GMM dashboard.
The streaming payload is visible in Kinetic GMM dashboard.	A device twin is automatically created in the cloud.
A device twin is automatically created in the cloud.	IR1101 is claimed via API on Kinetic GMM.
IR1101 is claimed via API on Kinetic GMM.	

QUESTION 20
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

QUESTION 21
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?

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

Correct Answer: A

QUESTION 22
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.

Correct Answer: CE

QUESTION 23

```
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 Correct**

Answer: A

QUESTION 24
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 25
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.

Correct Answer: BD