

➤ **Vendor:** Cisco➤ **Exam Code:** 300-915➤ **Exam Name:** Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)➤ **New Updated Questions from** [Braindump2go](#) (Updated in Dec./2020)**Visit Braindump2go and Download Full Version 300-915 Exam Dumps****QUESTION 33**

Drag and Drop Question

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.	
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.	

**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 34**

Drag and Drop Question

The network team of a large international airport is creating a sensor network on their site using the Cisco LoRaWAN solution. Drag and drop the actions from the left to right needed to implement this project. Not all options are used.

Onboard the gateways in the Field Network Director.	
Set up a database and message broker.	
Configure the devices uplinks and downlinks on the LoRa network server.	
Install the sensors and LoRa gateways (power, network connectivity).	
Add the sensors using the DevDI, AppDI, and AppKey.	

**Answer:**

	Install the sensors and LoRa gateways (power, network connectivity).
Set up a database and message broker.	Onboard the gateways in the Field Network Director.
	Configure the devices uplinks and downlinks on the LoRa network server.
Add the sensors using the DevDI, AppDI, and AppKey.	

**QUESTION 35**

Drag and Drop Question

Drag and drop the Dockerfile instructions from the left onto the correct arguments on the right.

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EXPOSE	alpine
ADD	apk update
WORKDIR	/opt/cisco
RUN	start.sh .
FROM	8000

Answer:

FROM
ADD
WORKDIR
RUN
EXPOSE

**QUESTION 36**

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 37**

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 38**

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.

Answer: C

**QUESTION 39**

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.

```

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"
  
```

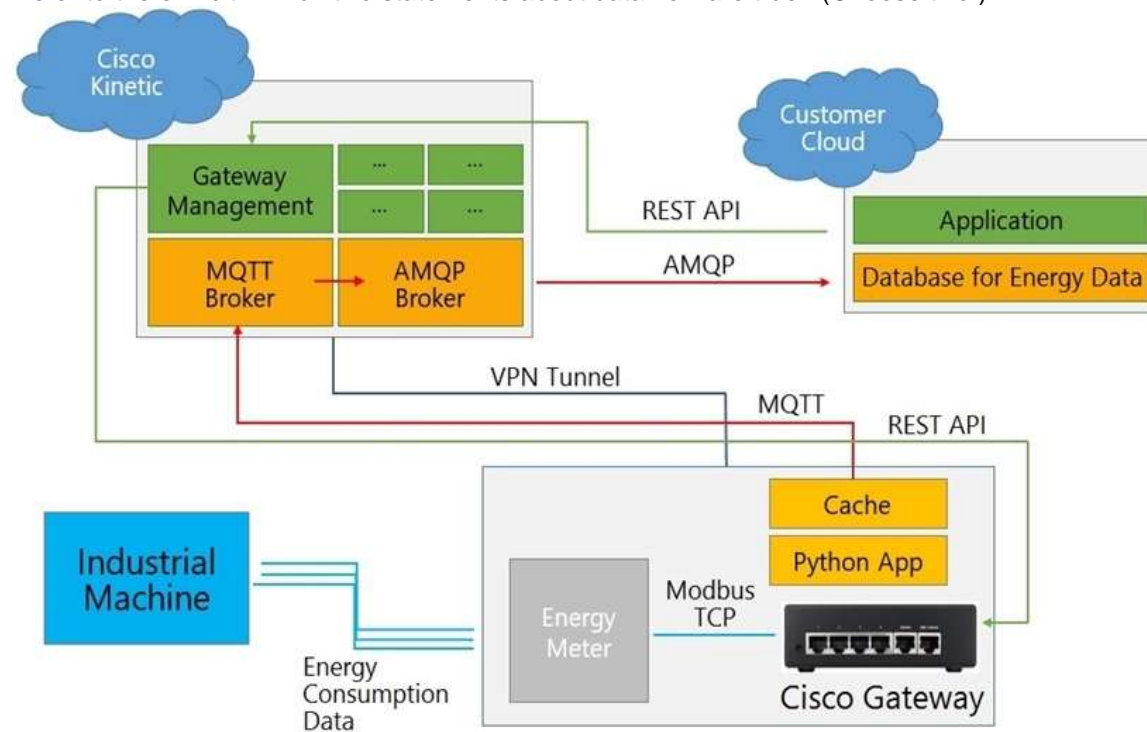
Which app type must be added to the snippet to resolve the issue?

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

**Answer: C**

#### QUESTION 40

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



- 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: BE**

#### QUESTION 41

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.

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**Answer:** B

**QUESTION 42**

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.

**Answer:** AD

**QUESTION 43**

Which command is used to package a Docker-style Cisco IOx app using ioxclient?

- A. ioxclient docker create helloworld:1.0.
- B. ioxclient docker-app helloworld:1.0.
- C. ioxclient docker package helloworld:1.0.
- D. ioxclient docker helloworld:1.0.

**Answer:** C

**QUESTION 44**

Drag and Drop Question

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