

DUMPS ARENA

Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT)

Cisco 300-915

Version Demo

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QUESTION NO: 1

A customer is deploying sensors with Cisco IR829 routers in moving trucks to continuously monitor the health of engines using a cloud application.

Which data extraction and processing strategy is best suited in this environment?

- A. No need to store data locally, upload in real time to the cloud for processing.
- B. Generate local alerts and create reports at the edge, and upload to the cloud at the end of the day.
- C. Use the store and forward mechanism to upload the information at the earliest to cloud.
- D. Ensure that data is stored for a longer duration locally and upload to the cloud every week.

ANSWER: B**QUESTION NO: 2**

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.

ANSWER: B**QUESTION NO: 3 - (DRAG DROP)**

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.	

ANSWER:

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Explanation:

QUESTION NO: 4

Which two states are applications expected to be seen in when they are managed on Cisco IOx? (Choose two.)

- A. DEACTIVATED
- B. ACTIVATED
- C. ALLOWED
- D. STOPPED

E. VALIDATED

ANSWER: B D

QUESTION NO: 5

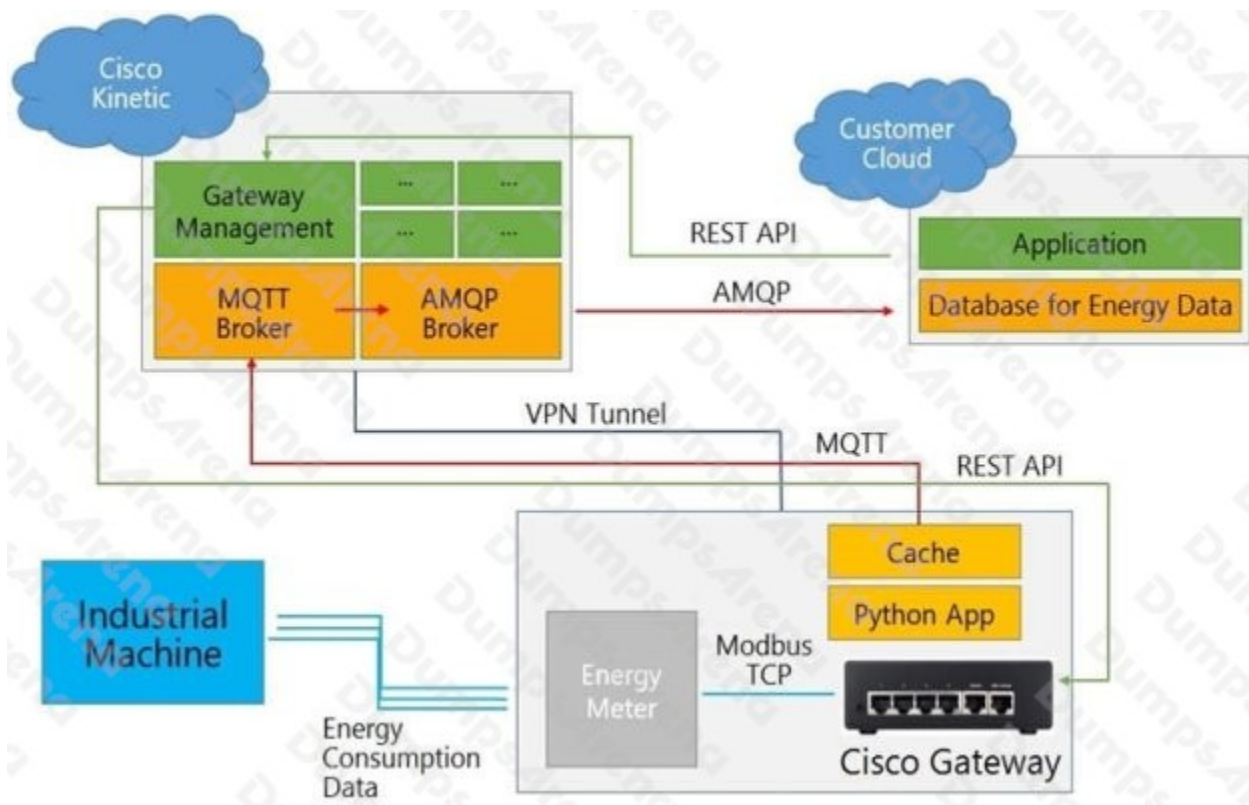
Mosquitto was installed correctly on the Cisco IR829 router as a Cisco IOx application. When the sensor is connected to the broker on the Cisco IR829 router with the default port, the connection is refused (Error Code 5).

Which action should be done to resolve the issue?

- A. Insert in the IOS config: ip nat inside source static tcp 1883 interface GigabitEthernet0 1883
- B. Insert in the package_config.ini file under section ports: tcp: ["8883"]
- C. Use the correct username and password.
- D. Insert in the package.yaml file under section ports: tcp: ["1883"]

ANSWER: C

QUESTION NO: 6



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: B E

QUESTION NO: 7

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: 8

A sensor reads potentially critical data from an industrial device, but most of the data from the sensor is not critical information and does not change unless a critical event happens.

Which data work flow is appropriate for how the critical and non-critical data is processed?

- A. 1. Acquire sensor data.
2. Filter non-actionable data.
3. Perform action on data.
4. Send critical data and action performed on data to cloud for storing.
- B. 1. Acquire sensor data.
2. Send data to cloud for processing and to determine action.
3. Send required action back to edge for action completion.

4. Perform action on data.

C. 1. Acquire sensor data.
2. Filter non-actionable data.
3. Perform action on data.

D. 1. Acquire sensor data.
2. Perform action on data.
3. Send data and action performed on data to cloud for recording.

ANSWER: D

QUESTION NO: 9

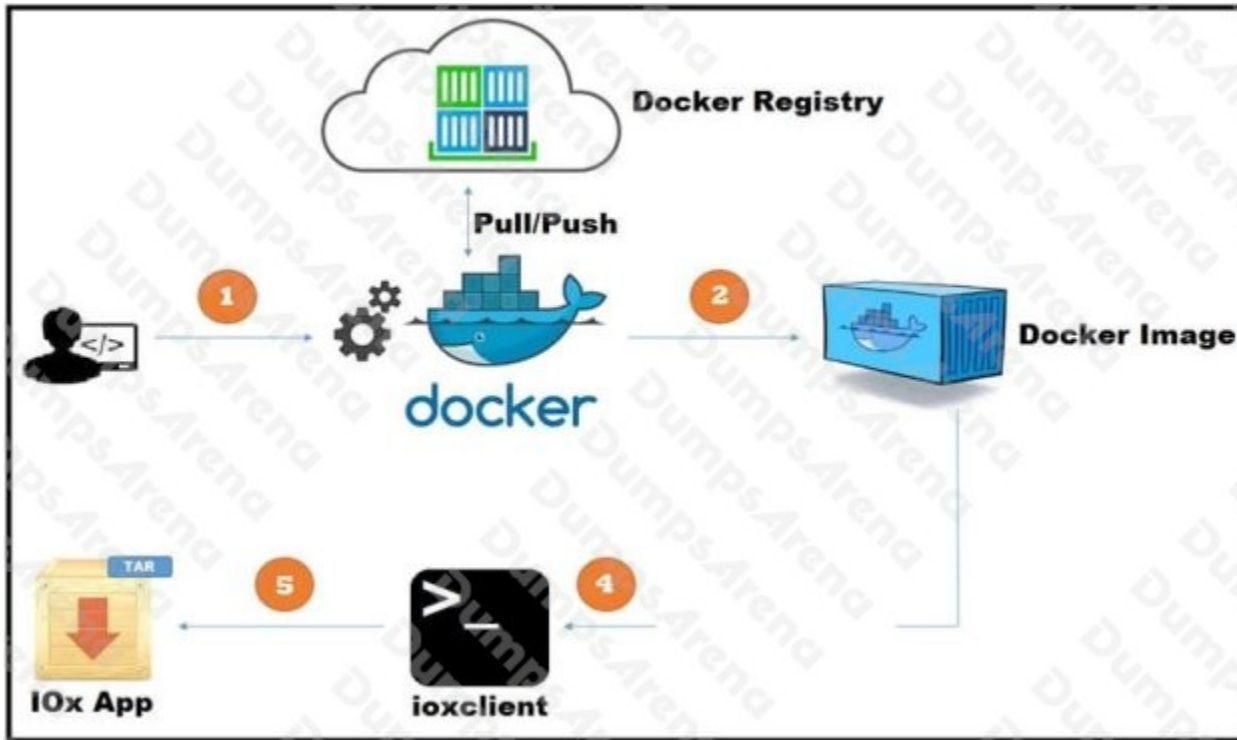
An IoT engineer is working on a connected machines project.

Which two protocols must be used during the data provisioning process when data is sent from the shop floor IoT system to the customer's public cloud? (Choose two.)

- A. COAP
- B. Modbus TCP
- C. MQTT
- D. AMQP
- E. OPC-DA

ANSWER: C D

QUESTION NO: 10



Refer to the exhibit. A new application has just been developed as a Docker container.

What is the missing step for packaging the container ready for deployment in IOx?

- A. Pull/push the image to the Docker registry.
- B. Build the package.yaml files.
- C. Build the package.cert file to sign the app.
- D. Log in to device manager and load the application.

ANSWER: B