

300-915^{Q&As}

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

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.

Empty target boxes for drag and drop.

Correct Answer:

- The sensor is sending data to the cloud.
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- 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 2

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 3

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

Correct Answer: A

QUESTION 4

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"]`

Correct Answer: C

QUESTION 5

Which two actions must be completed before starting the process of sending IoT data to the cloud via edge routers?

(Choose two.)

- A. Measure the voltage, power rating, and quiescent current for the sensors that send data to the cloud.
- B. Gather the hardware (MAC) addresses of local and cloud routers to ensure low latency communication.
- C. Collect information about the CPU architecture in the cloud and edge to ensure that they match.
- D. Gather the interval, the volume, and the latency that the data must be provisioned with.
- E. Collect information about growth, required elasticity, and high availability of the provisioning process.

Correct Answer: DE

QUESTION 6

When constructing a Python script for data extraction using GMM APIs on a Cisco Kinetic Cloud platform, how should the API authentication be implemented?

- A. Generate the API keys once and edit the permissions as needed.
- B. Generate and use the API keys for the required access level from the Kinetic Cloud application.
- C. Use a complex username and password with 128-bit encryption.
- D. Use a complex username with an auto-generated password from the Kinetic Cloud application.

Correct Answer: B

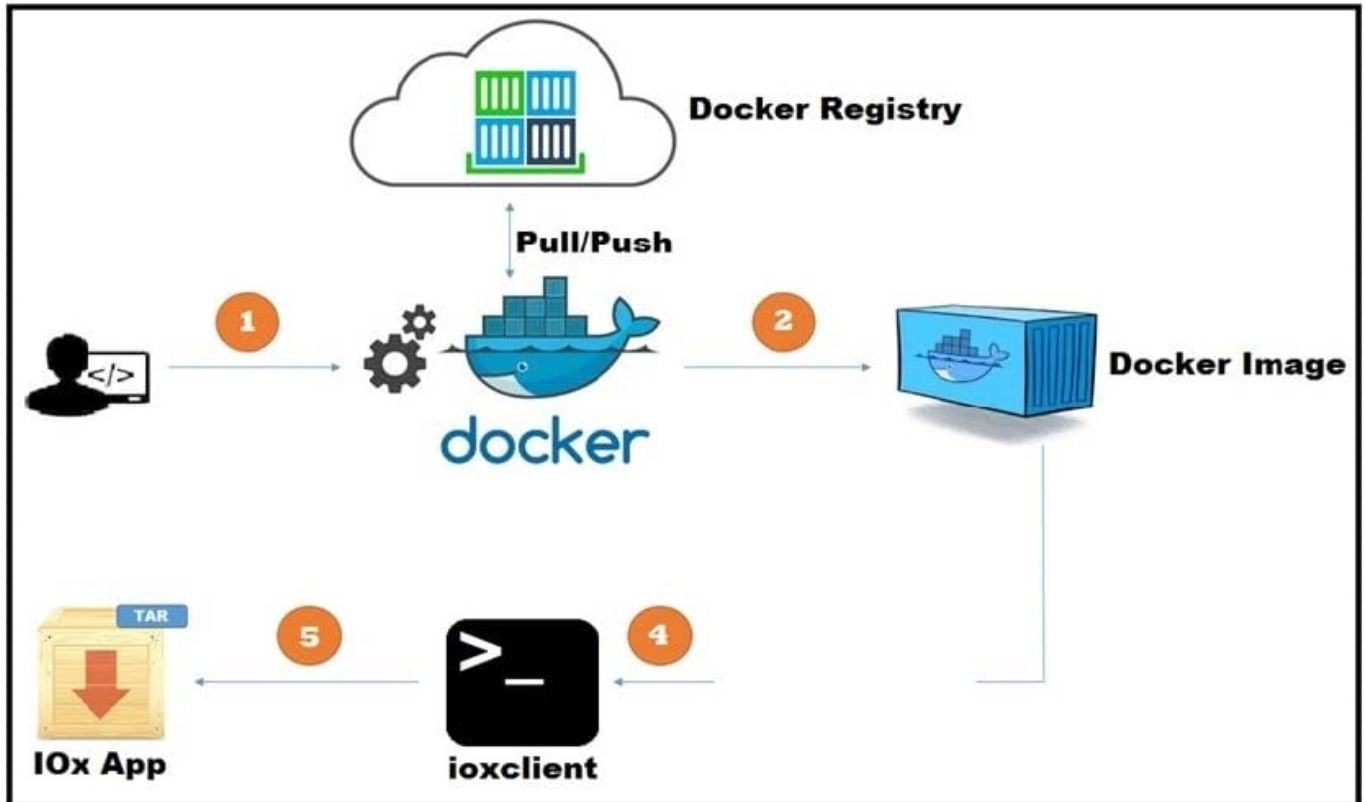
QUESTION 7

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 8



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.

Correct Answer: B

QUESTION 9

Which two data sources are used with a visualization tool such as Grafana? (Choose two.)

- A. Microsoft Power BI
- B. Kibana
- C. InfluxDB
- D. Elasticsearch
- E. Tableau

Correct Answer: CD

QUESTION 10

What are two functionalities of edge data services? (Choose two.)

- A. creating a machine learning data model
- B. supporting many interfaces and APIs
- C. applying advanced data analytics
- D. filtering, normalizing and aggregating data
- E. saving data for a prolonged time period

Correct Answer: DE

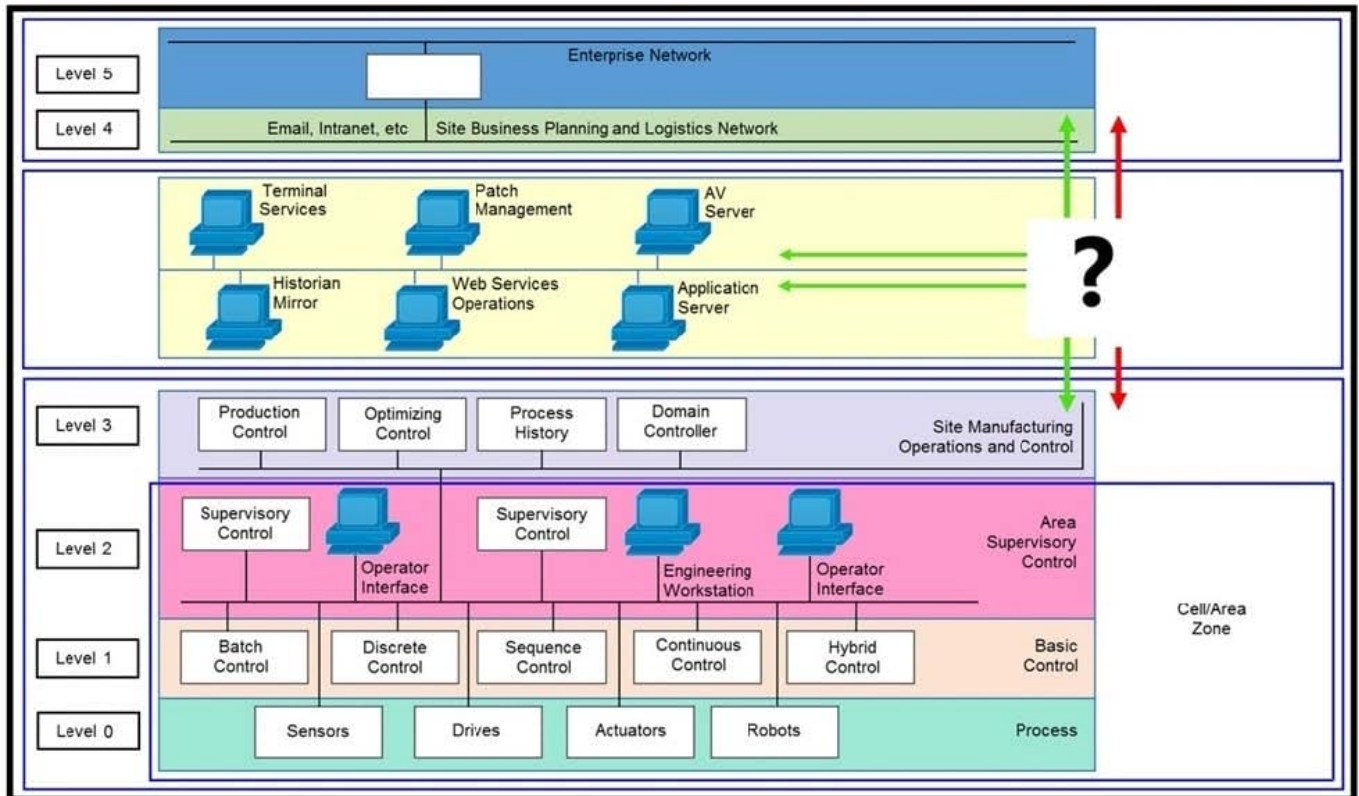
QUESTION 11

Which data visualization technique should be used to represent an important single metric on a dashboard?

- A. heatmap
- B. scatter plot
- C. gauge
- D. treemap

Correct Answer: C

QUESTION 12



Refer to the exhibit. Which product must be positioned where the "?" is placed to connect these different network levels?

- A. firewall
- B. switch
- C. router
- D. wireless access port

Correct Answer: C

QUESTION 13

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.

Correct Answer: C

QUESTION 14

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

Empty target boxes for drag and drop.

Correct Answer:

-
-
- credentials for network and cloud operations
-
- user interaction with the application
-
-

- code function for detection
- quality specification of product
- sensor function with sensor SDK
- cloud function communication with cloud SDK
- product removal function

QUESTION 15

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

Correct Answer: CD

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