



300-915^{Q&As}

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

```
{
  "set1": {
    "Source.IP": "192.168.0.52",
    "Source.Port": 443,
    "Destination.IP": "192.168.0.55",
    "Destination.Port": 44447,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "131",
    "Total.Fwd.Packets": "8"
  },
  "set2": {
    "Source.IP": "192.168.0.48",
    "Source.Port": 80,
    "Destination.IP": "192.168.0.49",
    "Destination.Port": 5000,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "246",
    "Total.Fwd.Packets": "21"
  },
  "set3": {
    "Source.IP": "192.168.5.50",
    "Source.Port": 8000,
    "Destination.IP": "10.0.0.91",
    "Destination.Port": 8000,
    "Protocol": 6,
    "Timestamp": "07/10/201911:12:20",
    "Flow.Duration": "567",
    "Total.Fwd.Packets": "321"
  },
  "set4": "Output shorted..."
}
```

Refer to the exhibit. The code snippet provides information about the packet captures within a network.

How can the most used source IP addresses within a specific time be visualized?

- A. line graph
- B. bar histogram
- C. scatter plot
- D. heatmap



Correct Answer: B

QUESTION 2

Which connector is southbound?

- A. horizontal connector
- B. cloud connector
- C. device connector
- D. universal connector

Correct Answer: C

QUESTION 3

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.

Correct Answer: C

QUESTION 4

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.

Correct Answer: B

QUESTION 5



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

- A. That is a heatmap projected on top of a geographic map.
- B. That is a treemap projected on top of a geographic map.
- C. The color red usually stands for lower values and the color blue usually stands for higher values.
- D. Another suitable visualization technique for this image would be line graphs.
- E. The color blue usually stands for lower values and the color red usually stands for higher values.

Correct Answer: AE

QUESTION 6

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 7



A company is collecting data from several thousand machines globally. Which software component in the overall architecture is the next destination of the dataflow after the data has been gathered and normalized on the edge data software?

- A. relational database: MySQL
- B. historian database: influxDB
- C. message broker: Apache Kafka
- D. dashboard: Node.js web app

Correct Answer: B

QUESTION 8



Refer to the exhibit. Approximately 4000 oil platforms, each with 400 sensors, are spread in the Gulf of Mexico and all of their data must come together into one dashboard. Which general architecture should be selected to connect them?

- A. 4-tier: sensor ?edge device (Intel Atom CPU) ?fog device (Intel Xeon CPU) ?cloud
- B. 5-tier: intelligent sensor?edge device (Intel Atom CPU) ?fog device (Intel Xeon CPU) ?edge data center (Intel Xeon CPU)
- C. 2-tier: intelligent sensor ?cloud
- D. 3-tier: sensor ?edge device (Intel Atom CPU) ?cloud

Correct Answer: B



Reference: <https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Documents/Internet%20of%20Things%20-%20Cisco%27s%20Vision%20and%20Approach.pdf>

QUESTION 9

Which element ensures that PKI is used to establish the identity of IoT devices?

- A. unique device identifier
- B. encryption key
- C. air gap
- D. hashed routes

Correct Answer: A

QUESTION 10

After an application is deployed, potential issues arise around connectivity. As part of the troubleshooting process, the IP address must be determined to ensure end-to-end communication.

Which method provides the required details using the Cisco IOx CLI?

- A. ioxclient application status
- B. ioxclient application metrics
- C. ioxclient application getconfig
- D. ioxclient application info

Correct Answer: D

QUESTION 11

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

QUESTION 12

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 13

```
import requests
import time

api_token = "ddd906922b8581e3.VoNzzzNgsYmKIgjg5AEPxGe-nNFZnJansn_Wv_-gAHY"
organization_id = 900
api_url_base = "https://eu.ciscokinetic.io/api/v2/"
headers = {"Content-Type": "application/json",
           "Authorization": "Token {}".format(api_token)}

r = requests.get(api_url_base+"organizations/{org_id}/gate_ways".format(organization_id), headers=headers)

if r.status_code == requests.codes.ok:
    output = r.json()
else:
    print("Errorr {}. Message: {}".format(r.status_code, r.content))
```

Error 401. Message: b'{"error_code":"invalid_api_token","errors":["Invalid API token, authentication failure."}]'

Refer to the exhibit. The code and the error message that are received when the code is run is presented.

What causes issues authenticating with Cisco GMM API using the web-generated API key?

- A. firewall that blocks authentication ports
- B. incorrect username and password
- C. incorrect GMM Cluster selection
- D. incorrect key size and data encryption

Correct Answer: B

QUESTION 14



DRAG DROP

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

Select and Place:

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

Correct Answer:

	FROM
	ADD
	WORKDIR
	RUN
	EXPOSE

QUESTION 15

As part of an IoT project, an organization is developing an edge application that will run on a gateway to securely transmit sensor information it receives into an IoT cloud. Based on the Agile software development lifecycle, the development team is planning to implement a CI/CD pipeline.

Which two methods should be suggested to make the software development lifecycle more secure during the implementation and testing? (Choose two.)

- A. Perform automated code reviews prior to deployment.
- B. Implement auto-provisioning security inspection for the code.
- C. Perform on-going penetration testing on the system.
- D. Perform a GAP analysis on current security activities and policies.
- E. Train members of the team in a secure software development lifecycle methodology such as OWASP.

Correct Answer: DE



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