

300-915^{Q&As}

Developing Solutions using Cisco IoT and Edge Platforms (DEVIOT)

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QUESTION 1

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.

Correct Answer: D

QUESTION 2

```
{
  "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.

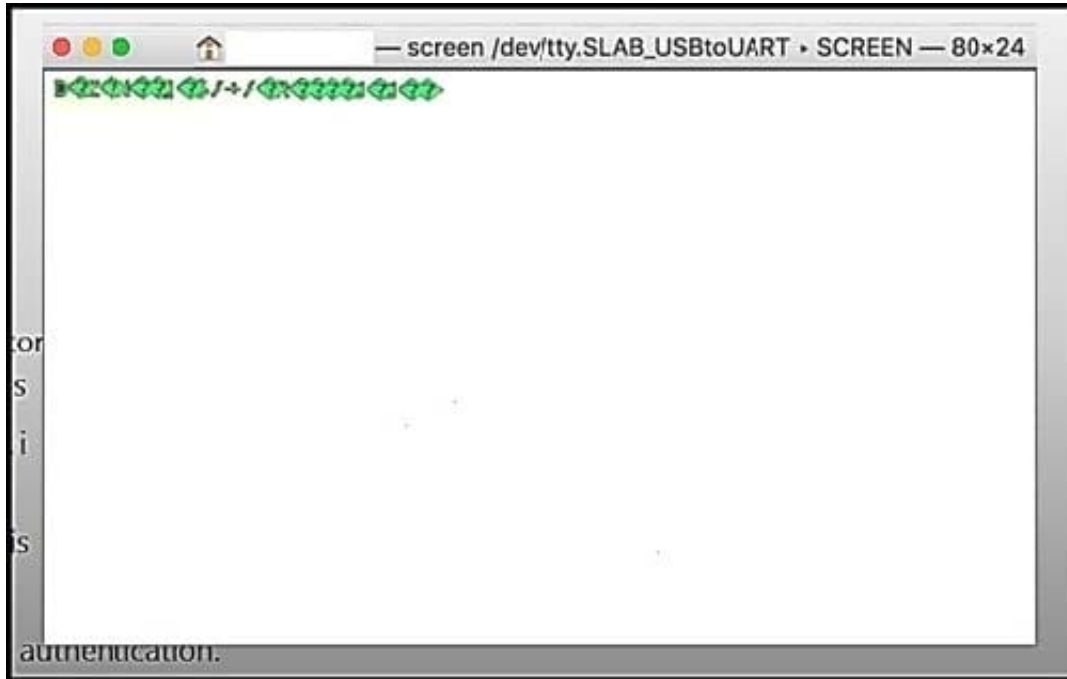
How can the most used source IP addresses within a specific time be visualized?

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

D. heatmap

Correct Answer: B

QUESTION 3



Refer to the exhibit. When a laptop is connected to a device via a serial connection, which action makes the output readable?

- A. Change the baudrate in the connection settings.
- B. Reboot the device in case a firmware error is the issue.
- C. Change the power level of the device.
- D. Change the unicode settings to UTF-8.

Correct Answer: A

QUESTION 4

DRAG DROP

Drag and drop the tasks from the left into the correct order on the right for transporting data from sensors to the cloud, in order to extract the machine data and use the cloud-based analytics for predictive maintenance.

Select and Place:

Develop a dashboard for data consumption based on business needs.

Remove duplicates and send filtered data to cloud.

Extract information from OPC using custom drivers or DSlink.

Interface the machine sensors using OPC based middleware.

Process real time critical alerts for immediate action.

Correct Answer:

Develop a dashboard for data consumption based on business needs.

Interface the machine sensors using OPC based middleware.

Extract information from OPC using custom drivers or DSlink.

Remove duplicates and send filtered data to cloud.

Process real time critical alerts for immediate action.

QUESTION 5

Which two commands inside a Docker container on a gateway help to troubleshoot why the compute performance of the device is slowing down? (Choose two.)

- A. show processes
- B. top
- C. wmic
- D. ps
- E. proc

Correct Answer: BD

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

An IOx application is installed via Local Manager. Every time the application is started, it instantly stops.

Which troubleshooting steps should be taken?

- A. There is something wrong with the application code itself.
- B. Check the startup and endpoint parameters.
- C. Give the IOx application more CPU units.
- D. Check local IOx settings, especially the network settings.

Correct Answer: C

QUESTION 8

Which two security approaches help build a strong authentication scheme? (Choose two.)

- A. connection based on location
- B. session IDs accepted only from cookies
- C. maximum allowed connections
- D. user logout
- E. session logout because of inactivity

Correct Answer: CE

QUESTION 9

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 10

Which lightweight protocol is used to send data from the edge compute resources to the cloud?

- A. MQTT
- B. XMPP
- C. AMQP
- D. MT Connect

Correct Answer: A

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