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Vendor:Cisco

Exam Code:300-435

Exam Name:Automating and Programming Cisco
Enterprise Solutions (ENAUTO)

Version:Demo

QUESTION 1

DRAG DROP

A Cisco DNA Center script must be written to retrieve a list of interfaces on a switch. Drag and drop the API calls that are needed to return the list of interfaces using the Command Running APIs from the left into the correct sequence on the right.

Select and Place:

Answer Area

Get task by ID.	run 1
Get file by ID.	run 2
Run read-only commands on devices.	run 3
Get device list.	run 4

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Correct Answer:

Answer Area

	Run read-only commands on devices.
	Get device list.
	Get file by ID.
	Get task by ID.

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Reference: <https://developer.cisco.com/docs/dna-center/#!using-id-values-in-rest-requests>

QUESTION 2

```

import requests
import sys

requests.package.urllib3.disable_warnings()

HOST = '10.1.2.3'
PORT = 9443
USER = 'user'
PASS = 'password'

def main():
    url = "https://{h}:{p}/restconf/data/Cisco-IOS-XE-native:native/
hostname".format(h=HOST, p=PORT)

    headers = {'Content-Type': 'application/ [ ] ',
              'Accept': 'application/ [ ] '}
    response = requests.get(url, auth=(USER,PASS),
                           headers=headers, verify=False)
    print(response.text)

if __name__ == '__main__':
    sys.exit(main())

```

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Refer to the exhibit. An engineer creates a Python script using RESTCONF to display hostname information. The code must be completed so that it can be tested. Which string completes the highlighted areas in the exhibit?

- A. yang-data+json
- B. yang +json
- C. yang.data+json
- D. json

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html

QUESTION 3

In the Cisco DNA Center Operational Tool API, which section of the intent API allows the retrieval of keywords that are accepted by the CLI and enables the execution of read-only commands on network devices to retrieve their real-configuration?

- A. Device Inventory
- B. Command Runner

- C. Network Assurance
- D. Device Discovery

Correct Answer: D

QUESTION 4

DRAG DROP

Drag and drop the steps from the left into the order on the right to create an end-to-end flow for Meraki Splash Screen using EXCAP.

Select and Place:

Answer Area

The AAA service authenticates the user and passes the appropriate web service	step 1
The client device is associated and redirected to the splash server	step 2
The Meraki cloud services invoke the AAA service to validate user credentials	step 3
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Correct Answer:

Answer Area

	The client device is associated and redirected to the splash server
	The Meraki cloud services invoke the AAA service to validate user credentials
	Client sign-on is required
	The AAA service authenticates the user and passes the appropriate web service
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QUESTION 5

FILL BLANK

Fill in the blank to complete the URL for the Cisco SD-WAN API that retrieves a list of users that are logged into a device.

http://<v>Clearer pictures and no water-mask in the Full Product,viceid>>

A. interface?

Correct Answer: A

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs/Real-Time_Monitoring_APIs/Interface

QUESTION 6

```
{
  "ietf-interfaces:interfaces": {
    "interface": [
      {
        "name": "GigabitEthernet1",
        "description": "MANAGEMENT INTERFACE",
        "type": "iana-if-type:ethernetCsmacd",
        "enabled": true,
        "ietf-ip:ipv4": {
          "address": [
            {
              "ip": "10.10.20.48",
              "netmask": "255.255.255.0"
            }
          ]
        },
        "ietf-ip:ipv6": {}
      }
    ]
  }
}
```

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Refer to the exhibit. A RESTCONF GET request is sent to a Cisco IOS XE device. A portion of the response is shown in the exhibit. Which module name corresponds to the YANG model referenced in the request?

A. ietf-interfaces:ietf-ipv4

B. iana-if-type:ethernetCsmacd

C. ietf-interfaces:interfaces

D. ietf-interfaces

Correct Answer: A

QUESTION 7

```
return_val=
{
  "alertId": "643451796765672516",
  "alertType": "appliances went down",
  "deviceMac": "e0:55:3d:6c:c1:7a",
  "deviceName": "MX65 c1:7a",
  "deviceSerial": "Q2QN-58EA-XXXX",
  "deviceUrl": "https://n143.meraki.com/Branch-1/n/.../manage/nodes/new_wired_status",
  "networkId": "L_1234567890",
  "networkName": "Branch 1",
  "networkUrl": "https://n143.meraki.com/Branch-1/n/.../manage/nodes/wired_status",
  "occuredAt": "2018-11-10T18:45:20.000000Z",
  "organizationId": "1234567",
  "organizationName": "Meraki Demo",
  "organizationUrl": "https://n143.meraki.com/o/.../manage/organization/overview",
  "sentAt": "2018-11-10T18:50:30.479982Z",
  "SharedSecret": "asdf1234",
  "version": "1.0"
}
```

Refer to the exhibit. The task is to create a Python script to display an alert message when a Meraki MX Security Appliance goes down. The exhibit shows sample data that is received. Which Python snippet displays the device name and the time at which the switch went down?

- A.

```
with return_val:
    print("The Switch: "+deviceName+ ",
    went down at: "+occurredAt)
```
- B.

```
print("The Switch: "+return_val.deviceName+ ", \
went down at: "+return_val.occurredAt)
```
- C.

```
print("The Switch: "+return_val['deviceName']+ ", \
went down at: "+return_val['occurredAt'])
```
- D.

```
with items as return_val:
    print("The Switch: "+items.deviceName+ ",
    went down at: "+items.occurredAt)
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 8

```
{
  "alertData": {
    "countNode": 1,
    "bssids": [
      "aa:bb:cc:dd:ee:ff",
      "11:22:33:44:55:66"
    ],
    "minFirstSeen": 1548512334,
    "maxLastSeen": 1548512802,
    "countIsContained": 0,
    "reason": "Seen on LAN",
    "wiredMac": "aa:bb:cc:dd:ee:f0"
  },
  "alertId": "629378047939282802",
  "alertType": "Air Marshal -Rogue AP detected",
  "occuredAt": "2019-01-26T14:18:54.000000Z",
  "organizationId": "123456",
  "organizationName": "Organization",
  "organizationUrl": "https://nl.meraki.com/o/.../manage/organization/overview",
  "networkId": "L_123456789012345678",
  "networkName": "Network",
  "networkUrl": "https://nl.meraki.com/.../manage/nodes/list",
  "version": "0.1",
  "SharedSecret": "supersecret",
  "sentAt": "2019-01-26T14:18:54.000000Z"
}
```

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Refer to the exhibit. The goal is to write a Python script to automatically send a message to an external messaging application when a rogue AP is detected on the network. The message should include the broadcast SSID that is in the alert.

A function called "send_to_application" is created, and this is the declaration:

```
send_to_application(message)
```

The exhibit also shows the data that is received by the application and stored in the variable return_val. Which Python code completes the task?

- A. `bssids =return_val["bssids"]`
`for number in range(return_val["alertData"]["countNode"]):`
`send_to_application ("ALERT: detected a bssid on the`
`network: "+ return_val["alertData"][bssids][number])`
- B. `bssids =return_val["bssids"]`
`for value in bssids:`
`send_to_application ("ALERT: detected a bssid on the`
`network: "+value)`
- C. `count = return_val["alertData"]["countNode"]`
`bssids =return_val["alertData"][count]["bssids"]`
`for value in bssids:`
`send_to_application ("ALERT: detected a bssid on the`
`network: "+value)`
- D. `bssids =return_val["alertData"]["bssids"]`
`for value in bssids:`
`send_to_application ("ALERT: detected a bssid on the`
`network: "+value)`

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A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

For number in range value is required for the application to send the alert. Bssids are also included.

QUESTION 9

FILL BLANK

Information about a rebooted device needs to be displayed with an ID of 260faff9-2d31-4312-cf96-143b46db0211 using the Cisco SD-WAN vManage Administration APIs. The API documentation states that deviceid is a required request parameter. Fill in the blank to create the REST call.

`https://vman` **Clearer pictures and no water-mask in the Full Product** `3b46db0211`

A. "deviceid":

Correct Answer: A

Reference: https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs/Software_Maintenance_APIs/Reboot_Device

QUESTION 10

Setting is used for the dampening period when configuring an on-change publication for YANG-push versus OpenConfig. What are two characteristics of synchronous calls to APIs? (Choose two.)

- A. They block until a response is returned from the servers
- B. They make an application less portable, so asynchronous calls are preferred
- C. They add perceived latency to an application if data is not received
- D. Calls are limited to specific programming languages
- E. They do not block while waiting for the API to be processed

Correct Answer: AC

Reference: <https://docs.cloudmgmt.cisco.com/display/40API/Synchronous+and+Asynchronous+APIs>

QUESTION 11

What is a benefit of developing an application in a Python virtual environment?

- A. The application operates in multiple target systems simultaneously.
- B. The application supports concurrency or multithreading.
- C. The application operates across systems that have different operating systems.
- D. The development environment is isolated from Python projects that already exist.

Correct Answer: B

Reference: <https://hackernoon.com/concurrent-programming-in-python-is-not-what-you-think-it-is-b6439c3f3e6a>

QUESTION 12

FILL BLANK

Fill in the blank to complete the statement.

_____ is a solution for automating the configuration of a device when it is first powered on, using DHCP and TFTP.

- A. Zero-touch provisioning

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b_169_programmability_cg/zero_touch_provisioning.html

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