300-435 Q&As

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QUESTION 1

DRAG DROP

```
GET: https://dnacsrv/api/v1/network-device
{
  "response": [
    {
      "type": "Cisco Catalyst 9300 switch",
      "errorCode": null,
      "family": "Switches and Hubs",
      "location": DC1,
      "role": "ACCESS",
      "macAddress: "a1:2b:30:40:41:50",
      "hostname": "cat_9k_1",
      "serialNumber": "FCW2136L0AK",
      "softwareVersion": "16.6.1",
      "locationName": null,
      "upTime": "13 days, 18:30:33.81",
      "softwareType": "IOS-XE",
      "collectionStatus": "Managed",
      "managementIpAddress": "10.10.22.66",
      "platformId": "C9300-24UX",
      "reachabilityStatus": "Reachable",
      "series": "Cisco Catalyst 9300 Series Switches",
      "snmpContact": "",
      "snmpLocation": "",
```

Refer to the exhibit. A GET request is issued to the Cisco DNA Center REST API. Drag and drop the GET request URL subpaths from the left onto the objectives on the right. Not all options are used.

Select and Place:

Answer Area

/api/v1/network-device?softwareType=IOS-XE&softwareVersion=16.4.2	List devices that are configured by using SNMP to be in the DC2 location
/api/v1/network-device?location=DC2	List device types
/api/v1/network-device?(softwareType=IOS-XE) AND (softwareVersion=16.4.2)	List the device that has an IP address of 10.222.10.35
/api/v1/network-device?family=Switches and Hubs	Display Cisco IOS XE devices that have IOS version 16.4.2
/api/v1/network-device?ipAddress=10.222.10.35	
/api/v1/network-device?snmpLocation=DC2	
/api/v1/network-device?managementIpAddress=10.222.10.35	
/api/v1/network-device?family=cat_9k_1	

Correct Answer:

Answer Area

```
/api/v1/network-device?softwareType=
IOS-XE&softwareVersion=16.4.2
```

```
/api/v1/network-device?location=DC2
```

```

```

```
/api/v1/network-device?managementIp
Address=10.222.10.35
```

```

```

```
/api/v1/network-device?ipAddress=
10.222.10.35
```

```
/api/v1/network-device?family=Switches
and Hubs
```

```
/api/v1/network-device?(softwareType=
IOS-XE) AND (softwareVersion=16.4.2)
```

```

```

```
/api/v1/network-device?snmpLocation=DC2
```

```

```

```
/api/v1/network-device?family=cat_9k_1
```

Reference: https://meraki.cisco.com/lib/pdf/meraki_whitepaper_captive_portal.pdf

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QUESTION 2

"https://vmanage-ip-address:8443/dataservice/template/policy/vsmart/activate/{policyId}"

Refer to the exhibit. A Python script must be created to deactivate vSmart Policy Cisco SD-WAN vManage Configuration APIs. The documentation states the URL is as shown in the exhibit for this REST call using POST, and that "policyId" is a required request parameter. Which line of Python code makes this call, assuming the variable "s" is a valid Requests session object and the variable "policy-id" is the policyId?

A. s.port(`https://vmanage:8443/dataservice/template/policy/vsmart/activate?policyId=%s\\' % policy_id)

B. s.port(`https://vmanage:8443/dataservice/template/policy/vsmart/activate/%s\\' % policy_id)

C. s.port(`https://vmanage:8443/dataservice/template/policy/vsmart/activateandpolicyId=%s\\' % policy_id)

D. s.port(`https://vmanage:8443/dataservice/template/policy/vsmart/activate/\\', data = {`policyId\\': policy_id})

Correct Answer: A

QUESTION 3

```
# Simple Application to run a few commands on a Cisco Device
ipaddresses = ['192.168.0.1', "192.168.0.5", "10.10.10.10"]
username = "admin"
password = "cisco123"
commands_to_run=["show ver", "show ip interface brief"]
Debug = True


for device in ipaddresses:
        print ("Logging into "+device+", using "+username+"/"+password)

        # We want to execute commands on our device only if Debug=True

        for commands in commands_to_run:
                print ("    Executing "+commands+" on device: "+device)
```

Refer to the exhibit. What is the expected output from the Python code?

A.
```
Logging into 192.168.0.1, using admin/cisco123
Logging into 192.168.0.5, using admin/cisco123
Logging into 10.10.10.10, using admin/cisco123
        Executing show ver on device: 192.168.0.1
        Executing show ip interface brief on device: 192.168.0.1
        Executing show ver on device: 192.168.0.5
        Executing show ip interface brief on device: 192.168.0.5
        Executing show ver on device: 10.10.10.10
        Executing show ip interface brief on device: 10.10.10.10
```

B.
```
Logging into 192.168.0.1, using admin/cisco123
Logging into 192.168.0.5, using admin/cisco123
Logging into 10.10.10.10, using admin/cisco123
```

C.
```
Simple Application to run a few commands on a Cisco Device
Loggig into 192.168.0.1, using admin/cisco123
We want to execute commands on our device only if Debug=True
        Executing show ver on device: 192.168.0.1
        Executing show ip interface brief on device: 192.168.0.1
Logging into 192.168.0.5, using admin/cisco123
We want to execute commands on our device only if Debug=True
        Executing show ver on device: 192.168.0.5
        Executing show ip interface brief on device: 192.168.0.5
Logging into 10.10.10.10, using admin/cisco123
We want to execute commands on our device only if Debug=True
        Executing show ver on device: 10.10.10.10
        Executing show ip interface brief on device: 10.10.10.10
```

D.
```
Logging into 192.168.0.1, using admin/cisco123
        Executing show ver on device: 192.168.0.1
        Executing show ip interface brief on device: 192.168.0.1
Logging into 192.168.0.5, using admin/cisco123
        Executing show ver on device: 192.168.0.5
        Executing show ip interface brief on device: 192.168.0.5
Logging into 10.10.10.10, using admin/cisco123
        Executing show ver on device: 10.10.10.10
        Executing show ip interface brief on device: 10.10.10.10
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 4

Which environment must be enabled to complete the Zero-Touch Provisioning process on a Cisco IOS XE device?

A. TCL

B. ZTP Open Service Container

C. EEM

D. Guest Shell

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3850/software/release/16-5/configuration_guide/prog/b_165_prog_3850_cg/zero_touch_provisioning.pdf

QUESTION 5

Refer to the exhibit. NTP server 10.1.1.20 must be configured on the target Cisco IOS XE device without using authentication and logging. Which state should be added on a new line at the end of the Ansible task?

```
- name: configure ntp
  ios_ntp:
      server: 10.1.1.20
      logging: false
      auth: false
```

A. state: true

B. state: started

C. state: present

D. state: installed

Correct Answer: C

Reference: https://docs.ansible.com/ansible/2.10/collections/cisco/ios/ios_ntp_module.html

QUESTION 6

```
{
    "Cisco-IOS-XR-ifmgr-cfg:interface-configurations": {
        "interface-configuration": [
            {
                "active": "act",
                "interface-name": "Loopback0",
                "description": "PRIMARY ROUTER LOOPBACK"
            }
        ]
    }
}
```

Refer to the exhibit. Which type of YANG container is described by the JSON instance provided?

A. interface-configurations

B. active

C. interface-name

D. description

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k-r7-0/programmability/configuration/guide/b-programmability-cg-asr9000-70x/b-programmability-cg-asr9000-70x_chapter_011.html

---

QUESTION 7

Which two actions do Python virtual environments allow users to perform? (Choose two.)

A. Simplify the CI/CD pipeline when checking a project into a version control system, such as Git.

B. Efficiently port code between different languages, such as JavaScript and Python.

C. Run and simulate other operating systems within a development environment.

D. Quickly create any Python environment for testing and debugging purposes.

E. Quickly create an isolated Python environment with module dependencies.

Correct Answer: DE

Reference: https://realpython.com/python-virtual-environments-a-primer/

QUESTION 8

A configuration has been made to add to every switch port a new port description. The script worked initially, but after a

few seconds, an HTTP 429 status code was received. What causes this error message from the Meraki cloud?

A. The wrong API key is used to query the data.

B. The rate limit of the Cisco Meraki API is exceeded.

C. The API key has expired.

D. The device goes offline while you poll the API dashboard.

Correct Answer: B

Reference: https://community.meraki.com/t5/Developers-APIs/my-API-Limit-exceed-and-key-is-not-working/td-p/64034

QUESTION 9

DRAG DROP

Drag and drop the characteristic from the left onto the monitoring type described on the right.

Select and Place:

Answer Area

Troubleshoot instant high spikes of CPU and memory load on network devices.	**Streaming Telemetry**
Ask network devices for any metric at any time.	
Prevent network devices from listening for network connections.	
Minimize the work required by device agents by pushing data as soon as the data is generated.	**Traditional Network Monitoring**

Correct Answer:

Answer Area

Streaming Telemetry

Troubleshoot instant high spikes of CPU and memory load on network devices.

Ask network devices for any metric at any time.

Prevent network devices from listening for network connections.

Traditional Network Monitoring

Minimize the work required by device agents by pushing data as soon as the data is generated.

Reference: https://www.cisco.com/c/en/us/td/docs/iosxr/ncs5500/telemetry/70x/b-telemetry-cg-ncs5500-70x/b-telemetry-cg-ncs5500-70x_chapter_010.html

---

QUESTION 10

```
{
  "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 -Roque AP detected",
  "occuredAt": "2019-01-26T14:18:54.000000Z",
  "organizationId": "123456",
  "organizationName": "Organization",
  "organizationUrl": "https://n1.meraki.com/o/.../manage/organization/overview",
  "networkId": "L_1234567890012345678",
  "networkName": "Network",
  "networkUrl": "https://n1.meraki.com/.../manage/nodes/list",
  "version": "0.1"
  "SharedSecret": "supersecret",
  "sentAt: "2019-01-26T14:35:20.442869Z",
}
```

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 = retutn_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)
```

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 11

Which two Cisco DNA Center features are needed to add legacy devices on the platform? (Choose two.)

A. multivendor SDK support

B. trusted device profile update

C. device package creation

D. device package download

E. device profile replication

Correct Answer: BC

QUESTION 12

```
{
    "version": "1.0",
    "response": [
        {
            "time": "2019-07-15T19:10:00.000+0000",
            "healthScore": 73,
            "totalCount": 11,
            "goodCount": 8,
            "unmonCount": 3,
            "fairCount": 0,
            "badCount": 0,
            "entity": null,
            "timeinMillis": 1563217800000
        }
    ],
    "measuredBy": "global",
    "latestMeasuredByEntity": null,
    "latestHealthScore": 73,
    "monitoredDevices": 8,
    "monitoredHealthyDevices": 8,
    "monitoredUnHealthyDevices": 0,
    "unMonitoredDevices": 3,
    "healthDistribution": [
        {
            "category": "Access",
            "totalCount": 9,
            "healthScore": 100,
            "goodPercentage": 100,
            "badPercentage": 0,
            "fairPercentage": 0,
            "unmonPercentage": 0,
            "goodCount": 3,
            "badCount": 0,
            "fairCount": 0,
            "unmonCount": 0
        },
        {
            "category": "Distribution",
            "totalCount": 2,
            "healthScore": 100,
            "goodPercentage": 100,
            "badPercentage": 0,
            "fairPercentage": 0,
            "unmonPercentage": 0,
            "goodCount": 2,
            "badCount": 0,
            "fairCount": 0,
            "unmonCount": 0
        },
        {
            "category": "WLC",
            "totalCount": 2,
            "healthScore": 50,
            "goodPercentage": 0,
            "badPercentage": 0,
            "fairPercentage": 0,
            "unmonPercentage": 100,
            "goodCount": 1,
            "badCount": 0,
            "fairCount": 0,
            "unmonCount": 1
        }
    ]
}
```

Refer to the exhibit. Which device type is functioning in a degraded state?

A. access point

B. distribution switch

C. access switch

D. wireless LAN controller

Correct Answer: C

QUESTION 13

An engineer stored source code in a Git repository and is ready to develop a new feature. The production release is stored in the "master" branch. Which commands create the new feature in a separate branch called "feature" and check out the new version?

```
○ A.  git branch \
          https://git.cisco.com/python_programmer/device_status:feature
      git checkout device_status:feature

○ B.  git remote add branch python_programmer/device_status:feature
      git pull

○ C.  git branch feature
      git checkout feature

○ D.  git remote add branch \
          https://git.cisco.com/python_programmer/device_status:feature
      git push
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

Reference: https://www.atlassian.com/git/tutorials/comparing-workflows/feature-branch-workflow

QUESTION 14

Refer to the exhibit.

End users cannot connect to the circular network, and the signal strength is poor. A missing or unknown APN status message is present and the modern status remains in low-power mode. Which addresses the issue?

A. Use the device/celluiar/status vManage resource URI to ensure sufficient radio signal strength.

B. Use the systen/device/controllers vManage resource URI to set the platform temperature.

C. Use the device/app-route/statistics vManage resource URI to allow packets reachability to hosts.

D. Use the device/tools\\'ping vManage resource URI to allow network device reachability.

Correct Answer: D

QUESTION 15

What does Cisco DNA Center use to manage third-party devices?

A. command runners

B. multivendor SDK

C. templates

D. device packages

Correct Answer: D

Reference: https://developer.cisco.com/docs/dna-center/

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