



## **Cisco**

### **Exam Questions 300-435**

Automating and Programming Cisco Enterprise Solutions (ENAUTO)

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#### NEW QUESTION 1

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.

**Answer:** DE

#### NEW QUESTION 2

What are two benefits of leveraging Ansible for automation of Cisco IOS XE Software? (Choose two.)

- A. Ansible playbooks are packaged and installed on IOS XE devices for automatic execution when an IOS device reboots.
- B. All IOS XE operating systems include Ansible playbooks for basic system administration tasks.
- C. It is a device-independent method for automation and can be used with any type of device or operating system.
- D. Ansible playbooks can be written from the IOS XE EXEC command line to configure the device itself.
- E. It does not require any modules of software except SSH to be loaded on the network device.

**Answer:** AC

#### NEW QUESTION 3

Which two features are foundations of a software-defined network instead of a traditional network? (Choose two.)

- A. control plane and data plane are tightly coupled
- B. build upon a robust software stack
- C. requires device by device-level configurations
- D. automated through expressed intent to a software controller
- E. requires significant physical hardware resources

**Answer:** BD

#### NEW QUESTION 4

A new project called "device\_status" must be stored in a central Git repository called "device\_status" with the first file named "device\_status.py". The Git repository is created using the account python\_programmer. Which set of commands inserts the project into Git?

- A.
- ```
git init
git add device_status.py
git commit -m "Initial Revision"
git remote add origin \
    https://git.cisco.com/python_programmer/device_status.git
git push -u origin master
```
- B.
- ```
git init
git remote add origin \
    https://git.cisco.com/python_programmer/device_status.git
git add device_status.py
git pull
```
- C.
- ```
git init
git remote add origin \
    https://git.cisco.com/python_programmer/device_status.git
git add device_status.py
git commit -m "Initial Revision"
git pull -u origin master
```
- A.
- ```
git init
git add device_status.py
git remote add python_programmer/device_status
git push
```

**Answer:** A

#### NEW QUESTION 5

Which statement describe the difference between OpenConfig and native YANG data models?

- A. Native models are designed to be independent of the underlying platform and are developed by vendors and standards bodies, such as the IETF.
- B. Native models are developed by individual developers and designed to apply configurations on platforms.
- C. OpenConfig models are developed by vendors and designed to integrate to features or configurations that are relevant only to that platform.

D. Native models are developed by vendors and designed to integrate to features or configurations that are relevant only to that platform.

**Answer:** A

**NEW QUESTION 6**

Which statement is true for Cisco IOS XE Software?

- A. RESTCONF supports JSON and XML and NETCONF supports XM
- B. RESTCONF supports XML and NETCONF supports JSON and XML.
- C. RESTCONF and NETCONF supports JSON and XML.
- D. RESTCONF supports XML and NETCONF supports JSON.

**Answer:** A

**NEW QUESTION 7**

The automation engineer must replace device configuration using RESTCONF. How is this configured using the Python library Requests?

- A. delete()
- B. post()
- C. put()
- D. patch()

**Answer:** C

**NEW QUESTION 8**

Which two Netmiko methods are used to configure a device? (Choose two.)

- A. send\_config()
- B. send\_control\_from\_file()
- C. send\_config\_set()
- D. send\_command()
- E. send\_config\_from\_file()

**Answer:** CE

**NEW QUESTION 9**

```
- name: Create VRFs as defined by local_vrfs
  ios_vrf:
    vrfs: "{{ local_vrfs }}"
    state: 
  register: addvrf
```

Refer to the exhibit. An engineer creates an Ansible playbook to configure VRF information using a local\_vrfs variable. The code must be completed so that it can be tested. Which string completes the code?

- A. present
- B. up
- C. on
- D. active

**Answer:** A

**NEW QUESTION 10**

Which two statements are benefits of YANG-push telemetry data over traditional data collection methods? (Choose two.)

- A. The subscription requests use less bandwidth than SNMP polls.
- B. It uses UDP rather than TCP.
- C. You can precisely define data subscriptions.
- D. It scales better than SNMP.
- E. It is supported on more devices than SNMP.

**Answer:** BC

**NEW QUESTION 10**

```

from device_info import ios_xel
from ncclient import manager
import xmltodict

netconf_filter = open('filter-ietf-interfaces.xml').read()

if __name__ == '__main__':
    with manager.connect(host=ios_xel["address"],
                        port=ios_xel["port"],
                        username=ios_xel["username"],
                        password=ios_xel["password"],
                        hostkey_verify=False) as m:

        netconf_reply = m.get(netcong_filter)

        intf_details = xmltodict.parse(netconf_reply.xml) ["rpc-reply"] ["data"]
        intf_config = intf_details["interfaces"] ["interface"]
        intf_info = intf_details["interfaces-state"] ["interface"]

        print("")
        print("Interface Details:")
        print(" Name: {}".format(  ["name"]))
        print(" Description: {}".format(intf_config["description"]))
        print(" Type: {}".format(intf_config["type"] ["#text"]))
        print(" MAC Address: {}".format(intf_info["phys-address"]))
        print(" Packet Input: {}".format(intf_info["statistics"] ["in-unicast-pkts"]))
        print(" Packet Output: {}".format(intf_info["statistics"] ["out-unicast-pkts"]))
    
```

```

<filter>
  <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>GigabitEthernet2</name>
    </interface>
  </interfaces>
  <interfaces-state xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
    <interface>
      <name>GigabitEthernet2</name>
    </interface>
  </interfaces-state>
</filter>
    
```

Refer to the exhibits. An engineer creates a Python scripts using ncclient to display interface information. The code must be completed so that it can be tested. Which expression completes the highlighted section in the format call?

- A. intf\_info
- B. intf\_config
- C. intf\_get
- D. intf\_config[0]

Answer: A

#### NEW QUESTION 12

```

from ncclient import manager
with manager.connect(
    host='10.0.0.1',
    port=12022,
    username='cisco',
    password='cisco',
    hostkey_verify=False,
    allow_agent=False,
    look_for_keys=False,
    device_params={'name': 'iosxe'},
) as m:
    
```

Refer to the exhibit. What is the correct ncclient method to use to collect the running configuration of a Cisco IOS XE device that uses NETCONF?

- A. config=m.copy\_config(source='running')
- B. config=m.get(source='running')
- C. config=m.collect\_config(source='running')
- D. config=m.get\_config(source='running')

**Answer:** A

**NEW QUESTION 16**

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

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

**NEW QUESTION 18**

A network administrator must troubleshoot a network issue using Cisco DNA Center. Which API request helps to determine issue details, impacted hosts, or suggested actions for the resolution?

- A. /dna/intent/v1/issues
- B. /dna/intent/api/v1/issues
- C. /dna/intent/v1/issue-enrichment-details
- D. /dna/api/v1/client-health/issues

**Answer:** B

**NEW QUESTION 21**

Which two features are characteristics of software-defined networks when compared to traditional infrastructure? (Choose two.)

- A. configured box-by-box

- B. changed manually
- C. use overlay networks
- D. designed to change
- E. require software development experience to manage

**Answer:** CD

**NEW QUESTION 24**

```

1 {
2   'data':
3     [
4       {
5         'count': 4,
6         'detailsURL': '',
7         'name': 'vEdge Hardware Health',
8         'status': 'error',
9         'statusList':
10        [
11          {
12            'count': 4,
13            'detailsURL': '/dataservice/device/hardwarehealth/detail?state=normal',
14            'message': '4 {normal=4, warning=0, error=0}',
15            'name': 'normal',
16            'status': 'up'
17          }
18        ]
19       }
20     ]
21   }

```

Refer to the exhibit. Cisco SD-WAN deployment must be troubleshooted using vManage APIs. A call to vEdge Hardware Health API returns the data in the exhibit (only a portion is shown). If this JSON is converted to a Python dictionary and assigned to the variable "d", how the status is accessed that is indicated on line 16?

- A. d[data][0][statusList][0][status]
- B. d['data']['statusList']['status']
- C. d{'data'}[0]['statusList'][0]['status']
- D. d['data'][0]['statusList'][0]['status']

**Answer:** B

**NEW QUESTION 28**

FILL BLANK

<https://vmanage-ip-address:8443/dataservice/device/action/reboot>  260faff9-2d31-4312-cf96-143b46db0211

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.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

"deviceId":

**NEW QUESTION 33**

What is the purpose of using the Cisco SD-WAN vManage Certificate Management API?

- A. to generate a CSR
- B. to allocate resources to the certificate server
- C. to request a certificate from the certificate server
- D. to enable vManage Center

**Answer:** A

**NEW QUESTION 35**

What is primary purpose of using the Cisco SD-WAN vManage Certificate Management API?

- A. to securely deploy vManage
- B. to report an issue to Cisco TAC
- C. to install signed certificates
- D. to contact Enterprise Certificate Authority

**Answer:** A

**NEW QUESTION 38**

Which two API calls must be issued to attach a device template in Cisco SD-WAN? (Choose two.)

- A. "monitor device action status" GET API request with the device ID to display the status of the attach action
- B. "monitor device action status" GET API request with the process ID to display the status of the attach action
- C. PUT call to initiate the attach action
- D. POST call to initiate the attach action
- E. GET call to initiate the attach action

**Answer:** BD

#### NEW QUESTION 39

FILL BLANK

Fill in the blank to complete the URL for an API call to Cisco SD-WAN to display the history of the Bidirectional Forwarding Detection sessions that run on a vEdge router.

**https://<vmanage-ip-address>/dataservice/device/  deviceid=<deviceid>**

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

bfd/synced/sessions?

#### NEW QUESTION 40

Which two types of solution are built with the Meraki Location Scanning API? (Choose two.)

- A. networking automation
- B. mapping
- C. guest Wi-Fi
- D. Sense
- E. wayfinder

**Answer:** BE

#### NEW QUESTION 41

Which URI with the request body of Request body: {"name":"Test","organizationId":<org\_id>,"type":"appliance"} creates a new Meraki network called "Test", when using APIs?

- A. PUT [https://api.meraki.com/api/v0/organizations/<org\\_id>/networks](https://api.meraki.com/api/v0/organizations/<org_id>/networks)
- B. POST <https://api.meraki.com/api/v0/networks>
- C. POST [https://api.meraki.com/api/v0/organizations/<org\\_id>/networks/<net\\_id>](https://api.meraki.com/api/v0/organizations/<org_id>/networks/<net_id>)
- D. POST [https://api.meraki.com/api/v0/organizations/<org\\_id>/networks](https://api.meraki.com/api/v0/organizations/<org_id>/networks)

**Answer:** D

#### NEW QUESTION 45

With the MV Sense API, which REST endpoint provides LUX level?

- A. /merakimv/XXXX-XXXX-XXXX/light
- B. /merakimv/XXXX-XXXX-XXXX/raw\_detections
- C. /merakimv/XXXX-XXXX-XXXX/0
- D. /merakimv/XXXX-XXXX-XXXX/zones

**Answer:** A

#### NEW QUESTION 48

Which REST endpoint is used to create a Cisco Meraki network?

- A. POST /organizations/{organizationId}/networks
- B. PATCH /networks{networkId}
- C. PUT /organizations/{organizationId}/networks
- D. POST /networks{networkId}

**Answer:** A

#### NEW QUESTION 52

```
{  
  "id": "L_123456",  
  "organizationId": 1357924,  
  "name": "Long Island Office",  
  "timeZone": "America/Los_Angeles",  
  "tags": "tag1 tag2",  
  "type": "combined",  
  "disableMyMerakiCom": false  
}
```

Refer to the exhibit. Which two parameters are mandatory when the Cisco Meraki API is used to create a network? (Choose two.)

- A. timezone
- B. disableMyMerakiCom
- C. type
- D. tags
- E. organizationId

**Answer:** AE

**NEW QUESTION 57**

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