

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

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 4

What are two characteristics of synchronous calls to APIs? (Choose two.)

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

Answer: CE

NEW QUESTION 5

```
module: Cisco-IOS-XE-vlan-oper
  +--ro vlans
    +--ro vlan* [id]
      +--ro id          uint16
      +--ro name?       string
      +--ro status?     vlan-iso-xe-oper:vlan-status-type
      +--ro ports* []
        | +--ro interface?  string
        | +--ro subinterface? uint32
      +--ro vlan-interfaces* [interface]
        +--ro interface    string
        +--ro subinterface  uint32
```

Refer to the exhibit. Which NETCONF protocol operation is used to interact with the YANG model?

- A. <edit-config>
- B. <get>
- C. <get-config>
- D. <copy-config>

Answer: A

NEW QUESTION 6

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="101">
  <get>
    <filter>
      <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
        <ntp>
          <server xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-ntp">
            <server-list>
              <ip-address>10.11.10.65</ip-address>
            </server-list>
          <server>
        </ntp>
      </native>
      <ntp-oper-data xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-ntp-oper">
        <ntp-status-info>
          <ntp-associations>
            <peer-stratum/>
          </ntp-associations>
        </ntp-status-info>
      </ntp-oper-data>
    </filter>
  </get>
</rpc>
```

Refer to the exhibit. How many YANG models does the NETCONF <get> operation interact with?

- A. one
- B. two
- C. three
- D. four

Answer: A

NEW QUESTION 7


```
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())
```

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

Answer: A

NEW QUESTION 8

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 9

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 10

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <establish-subscription
    xmlns="urn:ietf:params:xml:ns:yang:ietf-event-notifications"
    xmlns:yp="urn:ietf:params:xml:ns:yang:ietf-yang-push">
    <stream>yp:yang-push</stream>
    <yp:xpath-filter>/mdt-oper:mdt-oper-data/mdt-subscriptions</yp:xpath-filter>
    <yp: >1000</yp: >
  </establish-subscription>
</rpc>
```

Refer to the exhibit. Which XML tag completes this NETCONF telemetry subscription with a Cisco IOS XE device?

- A. crontab
- B. cadence

- C. frequency
- D. period

Answer: D

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 14

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. Mastered
- B. Not Mastered

Answer: A

Explanation:

Zero touch provisioning (ZTP)

NEW QUESTION 19

Which tag is required when establishing a YANG-push subscription with a Cisco IOS XE device?

- A. <yp:period>
- B. <yp:subscription-result>
- C. <yp:subscription-id>
- D. <yp:xpath-filter>

Answer: D

NEW QUESTION 22

```
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(netconf_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 25

FILL BLANK

Fill in the blanks to complete this API request against the Cisco SD-WAN vManage Statistics API, which specified a deviceId of 260faff9-2d31-4312-cf96-143b46db0211, a local-color of biz-internet, and a remote-color of gold.

https://vmanage-ip-address:8443/dataservice/device/app-route/statistics? **260faff9-2d31-4312-**
cf96-143b46db0211 **biz-internet** **gold**

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

deviceId=, local-color, remote-color

NEW QUESTION 26

What does the command boot ipxe forever switch 1 perform when executed on a Cisco IOS XE device?

- A. It continuously sends DHCP requests for iPXE until the device boots with an image.
- B. It continuously sends DNS requests for iPXE until the device restarts.
- C. It continuously sends DNS requests for iPXE until the device boots with an image.
- D. It continuously sends DHCP requests for iPXE until the device restarts.

Answer: A

NEW QUESTION 27

In which direction does the Cisco DNA Center Intent API communicate?

- A. westbound
- B. eastbound
- C. northbound
- D. southbound

Answer: C

NEW QUESTION 30

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 32

```

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 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 36

Which action allows for creating a Python script to pull inventory for Cisco SD-WAN Viptela devices using the Viptela library in the code?

- A. from urllib.request import Viptela
- B. from viptela.devices import Viptela

- C. from viptela.viptela import Viptela
- D. from viptela.library import Viptela

Answer: B

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 41

During a network outage, a network administrator used the Cisco SD-WAN vManage Troubleshooting Dashboard APIs to troubleshoot the cause of the issue. Which detail is captured during troubleshooting with these APIs?

- A. VPN health
- B. public cloud resources
- C. connections summary
- D. OMP connection health

Answer: C

NEW QUESTION 43

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 45

Which Python snippet receives a Meraki webhook request?

A.

```
@app.route('/mynet/webhook', methods=['PUT'])  
@app.accept_body(WebhookSchema)  
def receive_webhook(**kwargs):  
    send_sms_alert(kwargs['alertType'])
```

A. **`@app.route('/mynet/webhook', methods=['GET'])`**
`@app.accept_body(WebhookSchema)`
`def receive_webhook(kwargs):`**
 `send_sms_alert(kwargs['alertType'])`

B. **`@app.route('/mynet/webhook', methods=['PATCH'])`**
`@app.accept_body(WebhookSchema)`
`def receive_webhook(kwargs):`**
 `send_sms_alert(kwargs['alertType'])`

C. **`@app.route('/mynet/webhook', methods=['POST'])`**
`@app.accept_body(WebhookSchema)`
`def receive_webhook(kwargs):`**
 `send_sms_alert(kwargs['alertType'])`

Answer: D

NEW QUESTION 50

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 55

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 57

```
{
  "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 60

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