300-435 Q&As

Automating and Programming Cisco Enterprise Solutions (ENAUTO)

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QUESTION 1

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

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/sdwan-xe-gs-book/cisco-sd-wan-overlay-network-bringup.html

QUESTION 2

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

Correct Answer: BE

Reference: https://developer.cisco.com/meraki/build/wayfinding-mapwize/

QUESTION 3

```
---
- name: Create Int
  hosts: lab
  gather_facts: no
  vars:
    intlist:
    - 0
    - 1
    - 2
  tasks:
- name: create int
  ios_interface:
    name: Loopback{{item}}
    enabled: true
```

Refer to the exhibit. Interfaces named Loopback0, Loopback1, and Loopback2 must be created and enabled on a Cisco IOS XE target device in the lab group. Which loop must be added to the end of the Ansible “create int” task?

A. with_items: “{{intlist}}”

B. with_parent: “{{intlist}}”

C. with_list: “{{intlist}}”

D. with_groups: “{{intlist}}”

Correct Answer: C

QUESTION 4

```
from device_info import ios_xe1
from ncclient import manager
import xmltodict

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

if __name__ == '__main__':
   with manager.connect(host=ios_xe1["address"],
                        port=ios+xe1["port"],
                        username=ios+xe1["username"],
                        password=ios+xe1["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]

Correct Answer: A

The highlighted format cell for print is for the host.

Reference: https://github.com/CiscoDevNet/dnac-python-path-trace/blob/master/path_trace.py

QUESTION 5

When a Grafana dashboard is built to receive network events from Cisco DNA Center, which integration bundle is enabled to send notifications?

A. Basic ITSM CMDB Synchronization

B. DNA Center Rest API

C. Network Events for REST API Endpoint

D. Network Issue Monitor and Enrichment for ITSM

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/network-automation-and-management/dna-center/1-3/admin_guide/b_cisco_dna_center_admin_guide_1_3/b_dnac_admin_guide_1_2_10_chapter_010.html

QUESTION 6

On which device is the Cisco SD-WAN manage certificate management API able to install certificates?

A. CSR 1O00v

B. vFog router

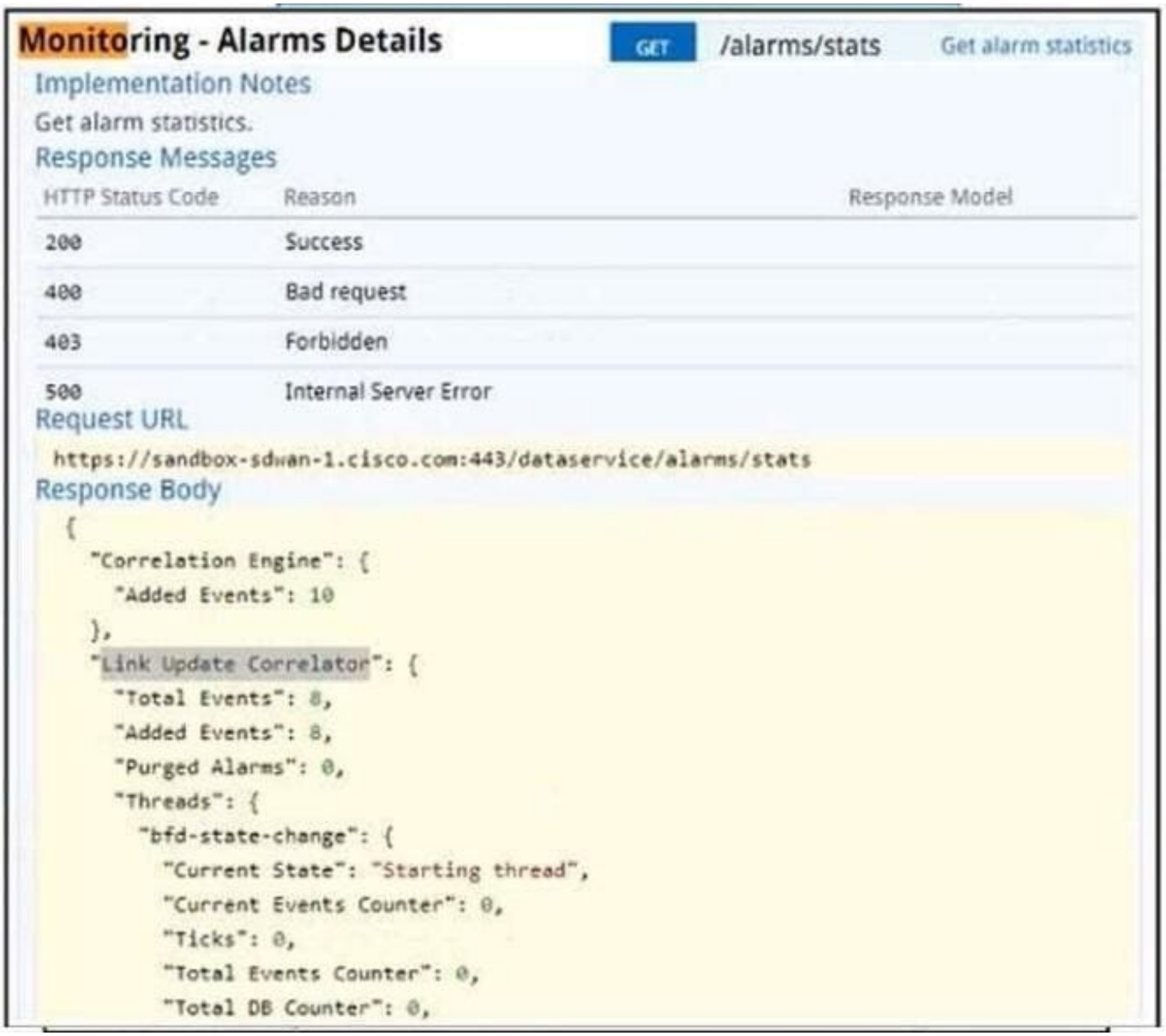
C. load balancer

D. vSmart

Correct Answer: C

QUESTION 7

Refer to the exhibit.



Monitoring - Alarms Details GET /alarms/stats Get alarm statistics

Implementation Notes

Get alarm statistics.

Response Messages

HTTP Status Code	Reason	Response Model
200	Success	
400	Bad request	
403	Forbidden	
500	Internal Server Error	

Request URL

```
https://sandbox-sdwan-1.cisco.com:443/dataservice/alarms/stats
```

Response Body

```
{
  "Correlation Engine": {
    "Added Events": 10
  },
  "Link Update Correlator": {
    "Total Events": 8,
    "Added Events": 8,
    "Purged Alarms": 0,
    "Threads": {
      "bfd-state-change": {
        "Current State": "Starting thread",
        "Current Events Counter": 0,
        "Ticks": 0,
        "Total Events Counter": 0,
        "Total DB Counter": 0,
```

```
import requests, urllib3
import json

urllib3.disable_warnings()

url = "https://sandbox-sdwan-1.cisco.com"
headers = {"Content-Type": "application/x-www-form-urlencoded"}
credentials = {"j_username": "devnetuser", "j_password": "RG!_Yw919_83"}
cookie_response = requests.post(url + "/j_security_check", headers=headers,
data=credentials, verify=False)
```

An API request must display an alert message if change in OSPF neighbors is detected. Which code snippet must be

added to complete the requests?

```
alarm stats = requests.post(url +
                  "/dataservice/alarms/stats",
                  cookies=cookie response.cookies,
                  verify=False)
if alarm stats.status code == 200:
   if json.loads(alarm stats.text)
   ['Correlation Engine']
   ['ospf-neighbor-state-change']
   ['Current State'] != 0:
         print('OSPF neighboor change detected!')
```

```
alarm stats = requests.post(url +
                  "/dataservice/alarms/stats",
                  cookies=cookie response.cookies,
                  verify=False)
if alarm stats.status code == 200:
   if json.loads(alarm stats.text)['Correlation
   Engine']['ospf-neighbor-state-change']
   ['Total Events Counter']  != 0:
         print('OSPF neighboor change detected!')
```

```
alarm stats = requests.post(url +
                  "/dataservice/alarms/stats",
                  cookies=cookie response.cookies,
                  verify=False)
if alarm stats.status code == 200:
   if json.loads(alarm stats.text)
   ['Correlation Engine']
   ['ospf-neighbor-state-change']
   ['Current State'] != 0:
         print('OSPF neighboor change detected!')
```

```
alarm stats = requests.post(url +
                  "/dataservice/alarms/stats",
                  cookies=cookie response.cookies,
                  verify=False)
if alarm stats.status code == 200:
   if json.loads(alarm stats.text)['Correlation
   Engine']['ospf-neighbor-state-change']
   ['Total Events Counter']  != 0:
         print('OSPF neighboor change detected!')
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 8

```
headers = {'Content-Type': 'application/yang-data+json',
           'Acccept': 'application/yang-data+json'}

response =
requests.get("https://10.10.20.48:443/restconf/data/ietf-interfaces:interfaces",
           auth=("cisco", "cisco_1234!"),
           headers=headers,
           verify=False
           )

i=0
for interface in interfaces:
      if "Loopback" in interface ["name"]:
           print(interfaces[i]["ietf-ip:ipv4"]["address"][0]["ip"])
      i=i+1
```

Refer to the exhibit. A Python script is used to configure a Cisco IOS XE device. The script must be updated to print the IP addresses of all the loopback interfaces. Which statement should be added before the loop?

A. interfaces = response.json()["ietf-interfaces:interfaces"]

B. interface = response.json()["ietf-interfaces:interfaces"]

C. interface = response.json()["ietf-interfaces:interfaces"]["interface"]

D. interfaces = response.json()["ietf-interfaces:interfaces"]["interface"]

Correct Answer: D

Reference: https://blog.wimwauters.com/networkprogrammability/2020-04-04_restconf_python/

QUESTION 9

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to construct a Python script to automate the process of updating the site-to-site VPN settings of the network. Not all options are used.

Select and Place:

```
import requests

url = "https://api.meraki.com/api/v0/networks/{{networkId}}/ [          ] "

payload = {
    "mode": "spoke",
    "hubs": [
        {"hubId": "N_4901849", "useDefaultRoute": True},
        {"hubId": "N_1092409", "useDefaultRoute": False}
    ],
    "subnets": [
        {"localSubnet": "192.168.1.0/24", "useVpn": True},
        {"localSubnet": "192.168.128.0/24", [          ] }
    ]
}
headers = {
    'Accept': '*/*',
    'Content-Type': 'application/json'
}

response = requests.request("PUT", url,
                            headers=headers,
                            [          ] )
print(response.text.encode('utf8'))
```

"useVpn": True	networksVpn
data=payload	siteToSiteVpn

Correct Answer:

```
import requests

url = "https://api.meraki.com/api/v0/networks/{{networkId}}/ siteToSiteVpn "

payload = {
    "mode": "spoke",
    "hubs": [
        {"hubId": "N_4901849", "useDefaultRoute": True},
        {"hubId": "N_1092409", "useDefaultRoute": False}
    ],
    "subnets": [
        {"localSubnet": "192.168.1.0/24", "useVpn": True},
        {"localSubnet": "192.168.128.0/24", "useVpn": True }
    ]
}
headers = {
    'Accept': '*/*',
    'Content-Type': 'application/json'
}

response = requests.request("PUT", url,
                            headers=headers,
                            data=payload )
print(response.text.encode('utf8'))
```

networksVpn

Reference: https://developer.cisco.com/meraki/api-v1/#!get-network-appliance-vpn-site-to-site-vpn

QUESTION 10

When working with MV Sense APIs, which type of protocol is MQTT based upon?

A. publish-subscribe messaging protocol

B. simple mail transport protocol

C. heavyweight messaging protocol

D. computer vision protocol

Correct Answer: A

Reference: https://internetofthingsagenda.techtarget.com/definition/MQTT-MQ-Telemetry-Transport

QUESTION 11

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

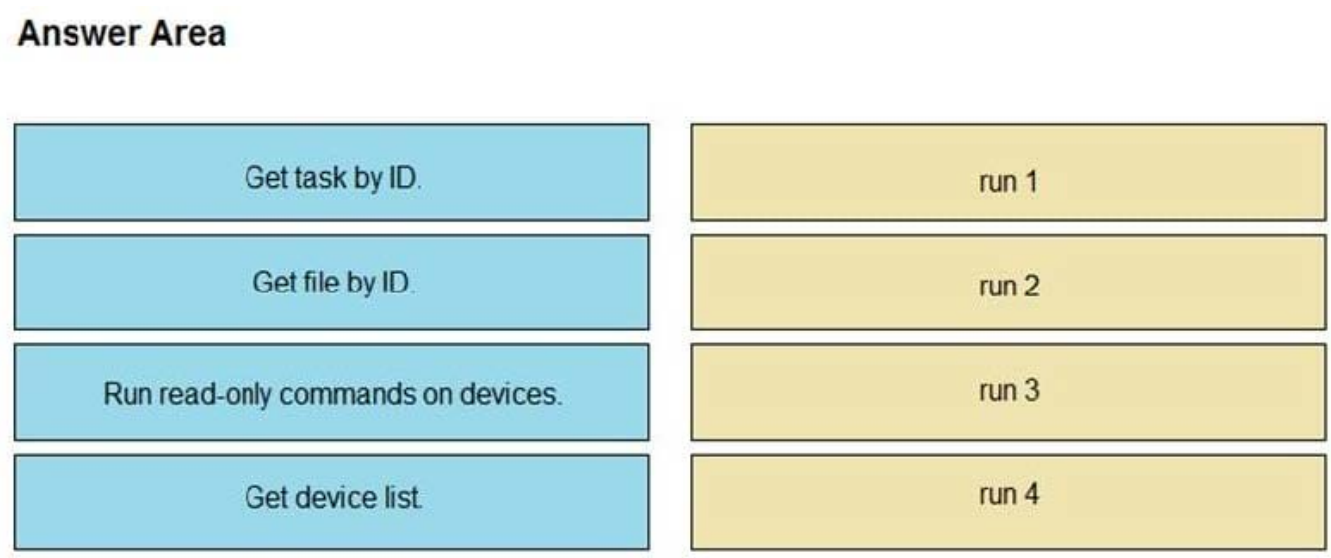
Correct Answer: D

QUESTION 12

DRAG DROP

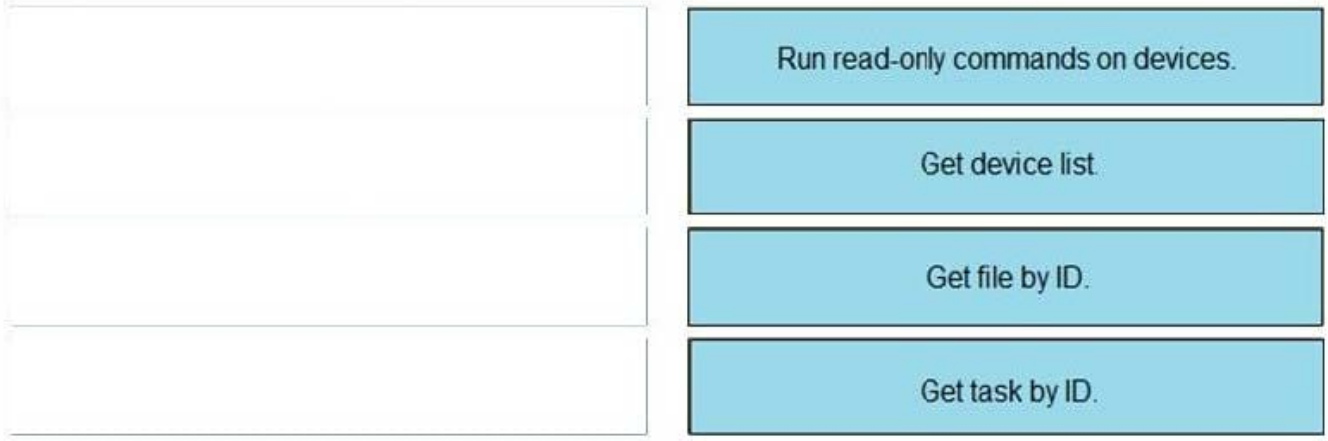
A Cisco DNA Center script must be written to retrieve a list of interfaces on a switch. Drag and drop the API calls that are needed to return the list of interfaces using the Command Running APIs from the left into the correct sequence on the right.

Select and Place:



Correct Answer:

Answer Area



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

QUESTION 13

Webhooks that are generated by Cisco DNA Center are REST calls with which properties?

A. JSON payload delivered via PUT

B. XML payload delivered via POST

C. JSON payload delivered via POST

D. XML payload delivered via PUT

Correct Answer: A

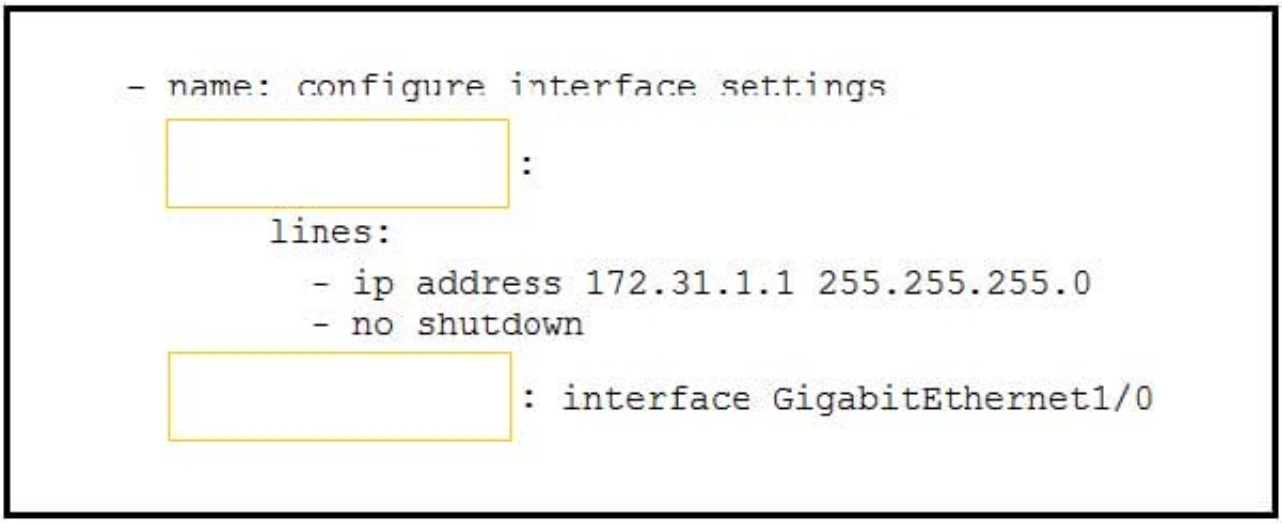
Reference: https://developer.cisco.com/docs/dna-center/#!using-id-values-in-rest-requests

QUESTION 14

DRAG DROP

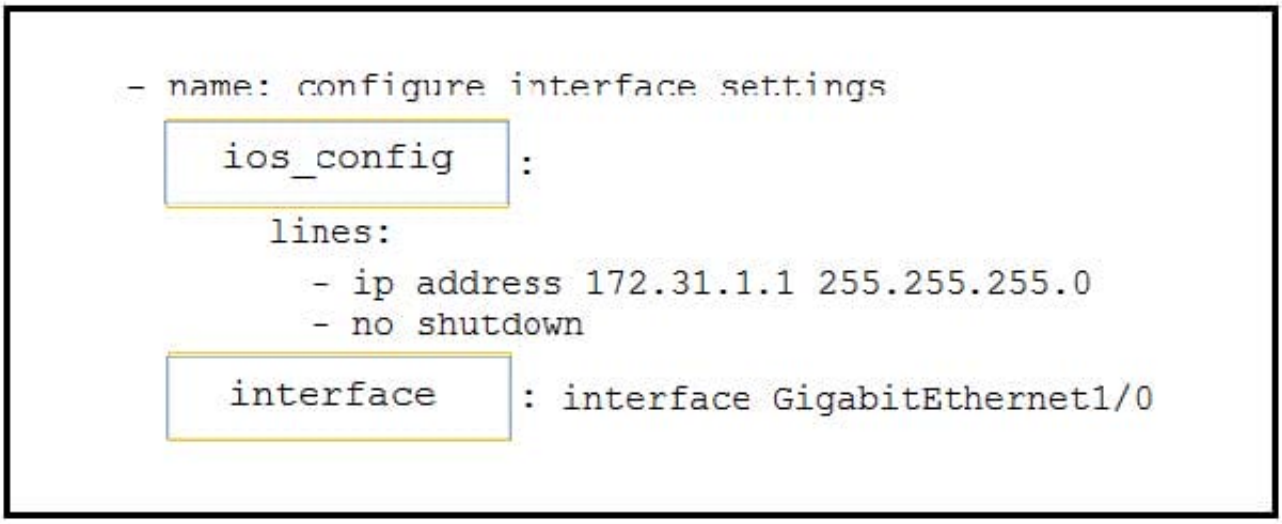
Drag and drop the code from the bottom onto the box where the code is missing in the Ansible playbook to apply the configuration to an interface on a Cisco IOS XE device. Not all options are used.

Select and Place:



ioscnd | parents
losconfig | interface
iosxe | ios_config

Correct Answer:



ioscnd

losconfig

iosxe

parents

QUESTION 15

```
neighbors = ['s1', 's2', 's3']
switch = {'hostname':'nexus','os':'7.0.3','neighbors':neighbors}
print(switch['neighbors'][1])
```

Refer to the exhibit. What is the result when running the Python scripts?

A. s1

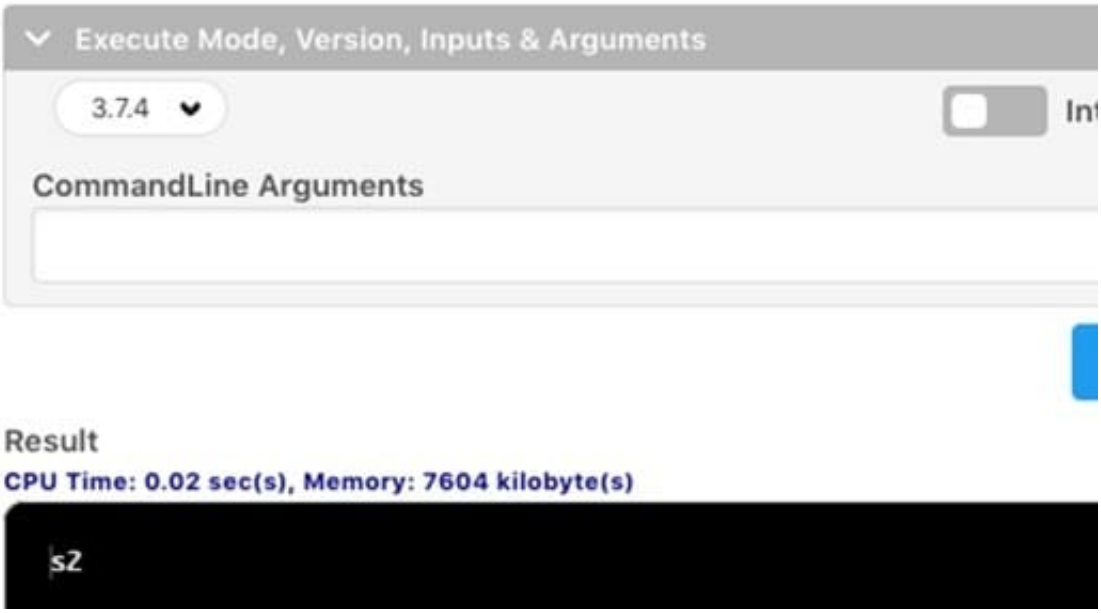
B. s2

C. s1, s2, s3

D. s3

Correct Answer: B

```
1  neighbors = ['s1', 's2', 's3']
2  switch = {'hostname':'nexus','os':'7.0.3','neighbors':neighbors
3  print(switch['neighbors' ][1])
```



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