300-635 Q&As

Automating and Programming Cisco Data Center Solutions (DCAUTO)

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QUESTION 1

Which management interface is selected by the Cisco APIC by default if an in band management interface and an out of-band management interface exist?

A. In-band is preferred

B. The first configured interface is selected

C. The interface that has the highest priority is selected

D. Out-of band is preferred

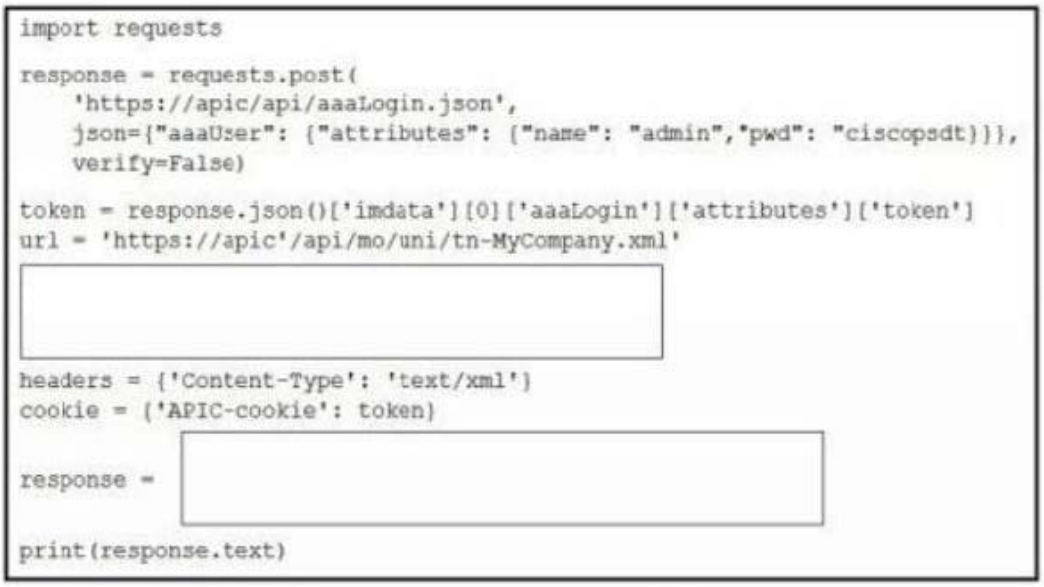
Correct Answer: D

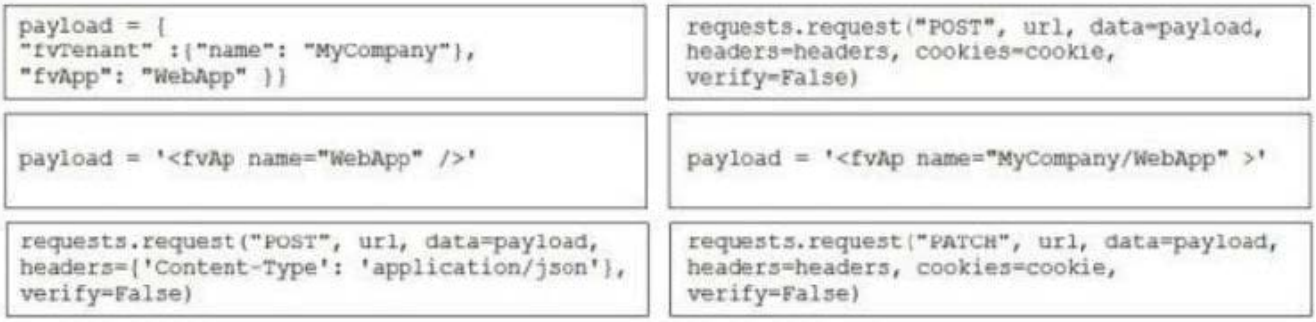
QUESTION 2

DRAG DROP

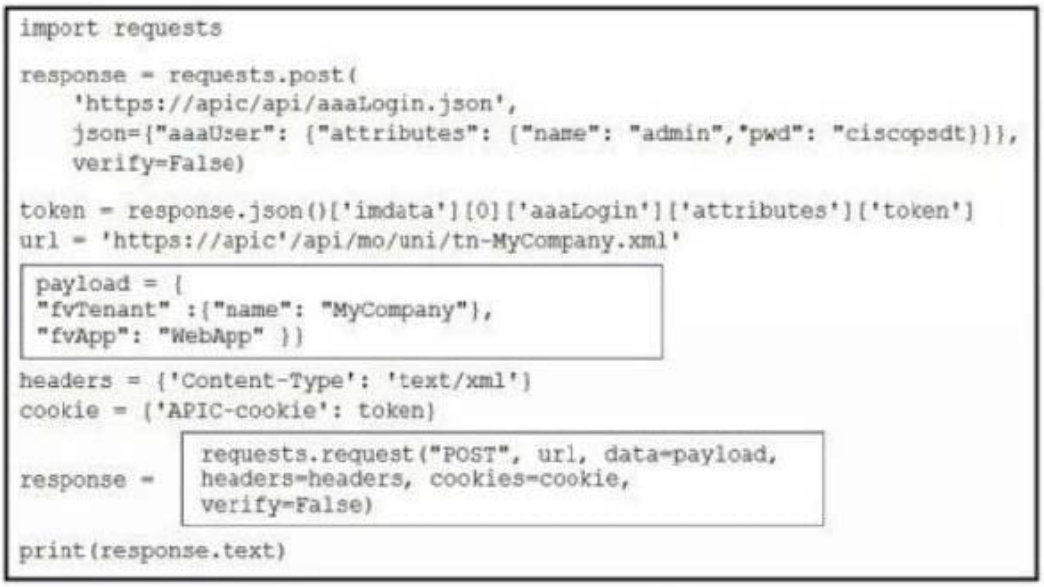
Drag and drop the correct code snippets into the Python code to create a new application profile "WebApp" using the ACI REST API. Not all options are used.

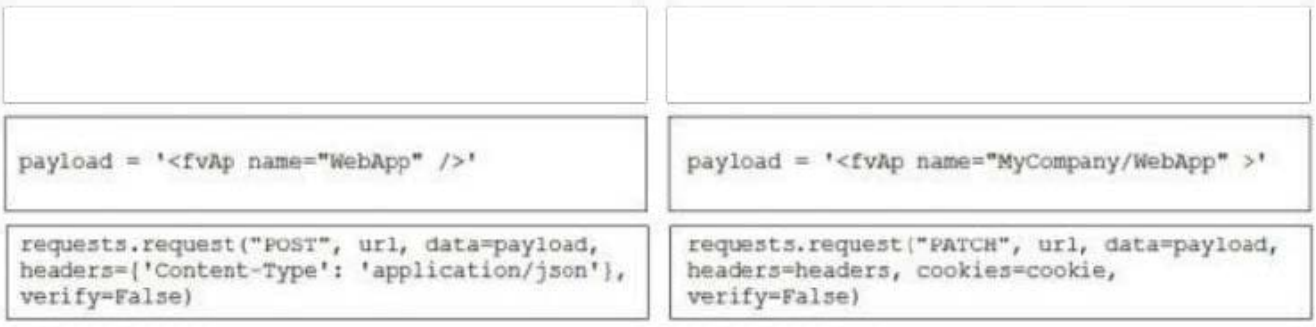
Select and Place:





Correct Answer:





QUESTION 3

Refer to the exhibit.

```
[admin@guestshell ~]$ pwd
/home/admin
[admin@guestshell ~]$
[admin@guestshell ~]$
[admin@guestshell ~]$ more deltacounter.py
#!/isan/bin/python

from cli import *
import sys, time

ifName = sys.argv[1]
delay = 2
count = 5
cmd = 'show interface ' + ifName + ' counters'

out = json.loads(clid(cmd))
rxuc = int(out['TABLE_rx_counters']['ROW_rx_counters'][0]['eth_inucast'])
rxmc = int(out['TABLE_rx_counters']['ROW_rx_counters'][1]['eth_inmcast'])
rxbc = int(out['TABLE_rx_counters']['ROW_rx_counters'][1]['eth_inbcast'])
txuc = int(out['TABLE_tx_counters']['ROW_tx_counters'][0]['eth_outucast'])
txmc = int(out['TABLE_tx_counters']['ROW_tx_counters'][1]['eth_outmcast'])
txbc = int(out['TABLE_tx_counters']['ROW_tx_counters'][1]['eth_outbcast'])
print ('row rx_ucast rx_mcast rx_bcast tx_ucast tx_mcast tx_bcast')
print ('===============================================')
print ('   %8d %8d %8d %8d %8d %8d'  % (rxuc, rxmc, rxbc, txuc, txmc, txbc))
print ('===============================================')

i = 0
while (i < count):
    time.sleep(delay)
    out = json.loads(clid(cmd))
    rxucNew = int(out['TABLE_rx_counters']['ROW_rx_counters'][0]['eth_inucast'])
    rxmcNew = int(out['TABLE_rx_counters']['ROW_rx_counters'][1]['eth_inmcast'])
    rxbcNew = int(out['TABLE_rx_counters']['ROW_rx_counters'][1]['eth_inbcast'])
    txucNew = int(out['TABLE_tx_counters']['ROW_tx_counters'][0]['eth_outucast'])
    txmcNew = int(out['TABLE_tx_counters']['ROW_tx_counters'][1]['eth_outmcast'])
    txbcNew = int(out['TABLE_tx_counters']['ROW_tx_counters'][1]['eth_outbcast'])
    i += 1
    print ('%-3d %8d %8d %8d %8d %8d %8d'  % \
      (i, rxucNew - rxuc, rxmcNew - rxmc, rxbcNew - rxbc, txucNew - txuc, txmcNew - txmc,

[admin@guestshell ~]$
```

The script is called deltacounters.py and it is currently inside a Guest Shell container running inside a Cisco NX-OS switch. Which Cisco NX-OS command results in a successful execution of this script?

A. python /home/admin/bootflash:deltacounters.py ethemet1/1

B. show python bootflash:deltacounters.py ethernet1/1

C. guestshell run python /home/admin/deltacounter.py ethernet1/1

D. guestshell execute python /home/admin/deltacounter.py ethernet1/1

Correct Answer: C

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

QUESTION 4

Which option are L4-L7 devices registered as on a Cisco APIC?

A. one virtual device

B. a cluster

C. one physical device

D. more virtual devices

Correct Answer: B

QUESTION 5

Which authentication method is used when the REST API of the Cisco UCS Director is accessed?

A. Bearer ((Bearer Token))

B. HTTP Basic Auth

C. RestAuth: ((User\\'s Auth Token))

D. X-Cloupia-Request-Key: ((User\\'s Auth Token))

Correct Answer: D

Reference : https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/rest-api-cookbook/6-6/cisco-ucs-director-REST-API-cookbook-66/cisco-ucs-director-REST-API-cookbook-66_chapter_010.html

QUESTION 6

Which two components are attributes of an ACI MIT managed object? (Choose two.)

A. MO

B. RN

C. UNI

D. DN

E. URL

Correct Answer: BD

Reference:

https://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/aci-fabric- controller/white-paper-c11-729586.html

QUESTION 7

Which procedure accesses the REST API browser within Cisco UCS Director?

A. Send an HTTP GET request to https://[UCS Director IP]/api/get_resources/.

B. Log in as the user REST/user to access the REST API interface.

C. Enable the Developer menu. Select Orchestration in the UI, then select the REST API browser tab.

D. Select the API browser from the Cisco UCS Director End User Portal catalog of services.

Correct Answer: C

Reference:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/rest-api-getting- started-guide/6-5/cisco-ucs-director-REST-API-getting-started- 65.html#task_CE85B54B1DB64855BB3BECCD24C31F5B

QUESTION 8

Refer to the exhibit.

```
mo_dir = cobra.mit.access.MoDirectory(cobra.mit.session.LoginSession(apic_url, username, password))
mo_dir.login()
cq = cobra.mit.access.ClassQuery('fvCEp')
cq.subtree = 'full'
objlist = mo_dir.query(cq)
for mo in objlist:
  print "MAC: " + mo.mac + "|" + "IP: " mo.ip
```

Which action does the execution of this ACI Cobra Python code perform?

A. It prints all LLDP neighbor MAC and IP addresses.

B. It prints all Cisco Discovery Protocol neighbor MAC and IP addresses.

C. It prints all endpoint MAC and IP addresses.

D. It prints all APIC MAC and IP addresses.

Correct Answer: C

Reference:https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_appendix_011.html

QUESTION 9

Which two initial actions should be taken when exploring automation capabilities for ACI? (Choose Two)

A. Write scripts that leverage the Python Standard Library

B. Look for an open-source package or SDK

C. Use the API Inspector and test API Calls

D. Develop an open-source package or SDK

E. Use the ncclient command to explore the NETCONF capabilities

Correct Answer: BC

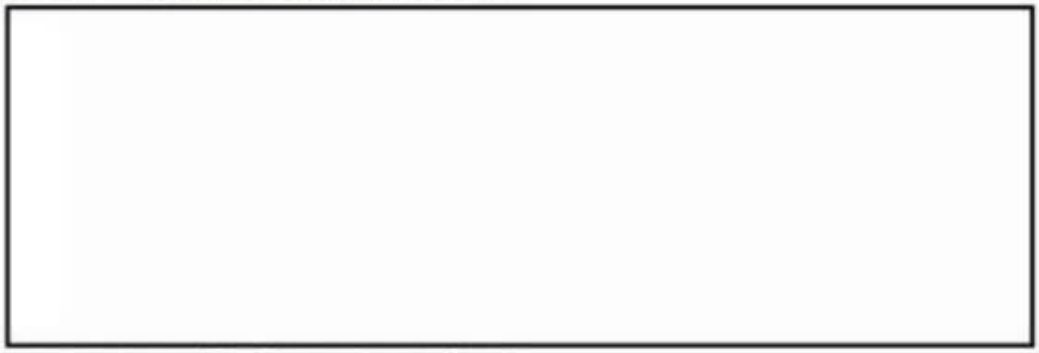
QUESTION 10

```
import requests

USER = "admin"
PASS = "password"
APIC = 'https://apic.supereats.com'

OPERATION = 'api/aaaLogin.json'
DATA = {"aaaUser": {"attributes": {"name":USER, "pwd":PASS}}}
RESPONSE = requests.post(APIC+OPERATION, json=DATA, verify=False)

TOKEN = RESPONSE.json()["imdata"][0]["aaaLogin"]["attributes"]["token"]
COOKIE = {'APIC-cookie': TOKEN}
```



```
OPERATION = 'api/aaaLogout.json'
DATA = {
    "aaaLogout": {
        "attributes": {
            "token":TOKEN
        }
    }
}
RESPONSE = requests.post(APIC+OPERATION, json=DATA, cookies.COOKIE, verify=False)
```

Which Python snippets create an application policy named OrderProcess that contains two application endpoint groups under Tenant SuperEats using direct calls to the ACI REST API? Assume that authentication and library imports are correct.

A.

```
OPERATION = 'api/node/mo/uni.json'
DATA = {
    "FVTenant": {"attributes": {"name": "SuperEats"},
    "children": [{"FVAp": {"attributes": {"name": "OrderProcess"},
        "children": [
            {"FVAEPg": {"attributes": {"name": "app"}}},
            {"FVAEPg": {"attributes": {"name": "web"}}}
            ]}
        }
    ]}
}
RESPONSE = requests.post(APIC+OPERATION, json=DATA, cookies=COOKIE)
```

B.

```
OPERATION = 'api/node/mo/uni.json'
DATA = {
    "fvTenant": {"attributes": {"name": "SuperEats"},
    "children": [{"fvAp": {"attributes": {"name": "OrderProcess"},
        "children": [
            {"fvAEPg": {"attributes": {"name": "app"}}},
            {"fvAEPg": {"attributes": {"name": "web"}}}
            ]}
        }
    ]}
}
RESPONSE = requests.get(APIC+OPERATION, cookies=COOKIE)
```

C.

```
OPERATION = 'api/node/mo/uni.json'
DATA = {
    "fvTenant": {"attributes": {"rn": "SuperEats"},
    "children": [{"fvAp": {"attributes": {"rn": "OrderProcess"},
        "children": [
            {"fvAEPg": {"attributes": {"rn": "app"}}},
            {"fvAEPg": {"attributes": {"rn": "web"}}}
            ]}
        }
    ]}
}
RESPONSE = requests.post(APIC+OPERATION, json=DATA, cookies=COOKIE)
```

D.

```
OPERATION = 'api/node/mo/uni.json'
DATA = {
    "fvTenant": {"attributes": {"name": "SuperEats"},
    "children": [{"fvAp": {"attributes": {"name": "OrderProcess"},
        "children": [
            {"fvAEPg": {"attributes": {"name": "app"}}},
            {"fvAEPg": {"attributes": {"name": "web"}}}
            ]}
        }
    ]}
}
RESPONSE = requests.post(APIC+OPERATION, json=DATA, cookies=COOKIE)
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 11

Refer to the exhibit.

```
from acitoolkit.acitoolkit import (
    AppProfile, BridgeDomain, Context,
    EPG, Session, Subnet, Tenant
)

def create_tenant():
    session = Session(
        "https://apic", "admin", "ciscopsdt"
    )
    session. login()
    my_tenant = Tenant("DevNet_Tenant")
    my_vrf = Context("DevNet_VRF", my_tenant)
    my_bd = BridgeDomain("DevNet_BD", my_tenant)
    my_bd.add_context(my_vrf)
    my_subnet = Subnet("DevNet_Subnet", my_bd)
    my_subnet.set_scope("public")
    my_subnet.set_addr("10.10.10.1/24")
    my_app = AppProfile("DevNet_App", my_tenant)
    my_epg = EPG("DevNet_EPG", my_app)
    my_epg.add_bd(my_bd)
    session.push_to_apic(
        my_tenant.get_url(),
        my_tenant.get_json())

if __name__ == '__main create__':
    create_tenant()
```

Which two actions does this Python code perform with the Cisco ACI? (Choose two.)

A. It creates a subnet "DevNet_Subnet" inside VRF "DevNet_VRF" located in ACI tenant "DevNet_Tenant" and sets the scope to "private".

B. It creates a subnet "DevNet_Subnet" inside AppProfile "DevNet_App" located in ACI tenant "DevNet_Tenant" and sets the network address to "10.10.10.1/24".

C. It creates an EPG "DevNet_EPG" inside AppProfile "DevNet_App" located in ACI tenant "DevNet_Tenant" and link

the EPG with BridgeDomain "DevNet_BD".

D. It creates a subnet "DevNet_Subnet" inside VRF "DevNet_VRF" located in ACI tenant "DevNet_Tenant" and sets the network address to "10.10.10.1/24".

E. It creates an EPG "DevNet_EPG" inside VRF "DevNet_VRF" located in ACI tenant "DevNet_Tenant" and link the EPG with BridgeDomain "DevNet_BD".

Correct Answer: CE

QUESTION 12

Refer to the exhibit.

```
https://APIC_IP/api/class/l1PhysIf.xml?query-target-filter=eq(l1PhysIf.speed,"10G")
```

Which two statements are true about this API GET request to the ACI APIC? (Choose two.)

A. The API call creates a new 10G interface in the APIC.

B. The API call reads information from a managed object.

C. The API response is encoded in JSON.

D. The API call reads information from an object class.

E. The API response is encoded in XML.

Correct Answer: CE

https://aci-prog-lab.ciscolive.com/lab/pod9/api/api_tree

QUESTION 13

An engineer is implementing a Cisco Nexus switch. Which command executes an Ansible playbook called n9k.yml?

A. ansible-playbook n9k.yml

B. ansible-playbook -f n9k.yml -run now

C. ansible-playbook -f n9k.yml

D. ansible-playbook -f N9K.yml

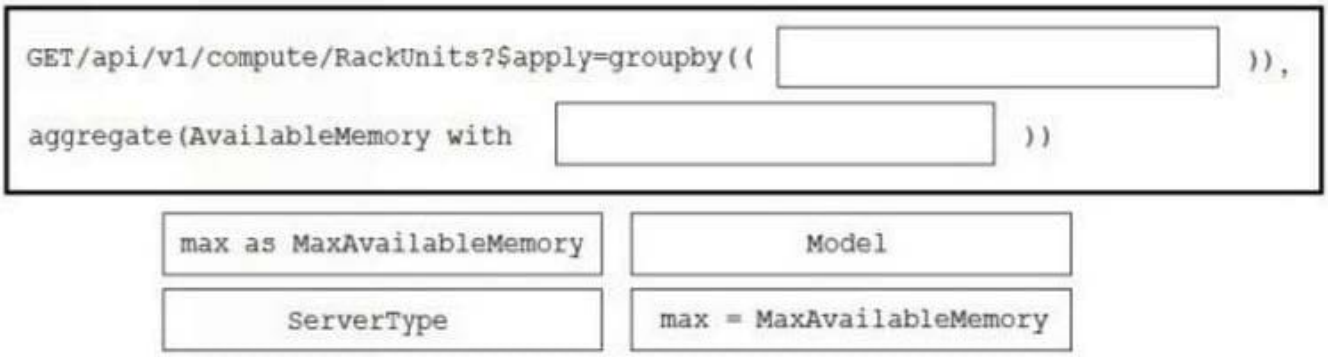
Correct Answer: A

QUESTION 14

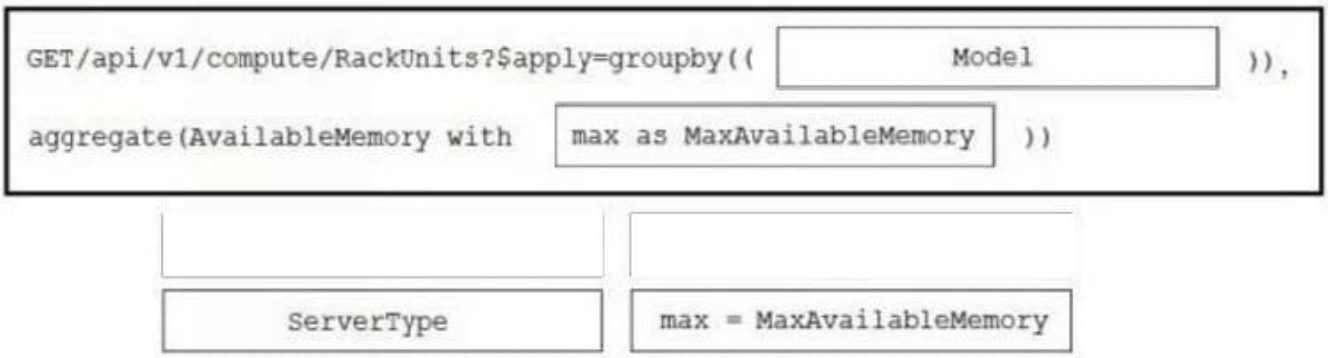
DRAG DROP

A co-worker is using Cisco Intersight to determine the maximum available memory per server for their company\\'s data center. Drag and drop the code to complete the Cisco Intersight API call that provides the desired results. Not all options are used.

Select and Place:



Correct Answer:



QUESTION 15

Which option must be configured to allow SNMP communications and traffic?

A. an out of-band bridge domain

B. an out-of-band contract

C. an out-of-band policy

D. an out-of-band management interface

Correct Answer: B