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Automating and Programming Cisco Data Center Solutions (DCAUTO)

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QUESTION 1

Refer to the exhibit.

```
def add_tenant():
    token = apic_login.aaaLogin()
    for tenant in range (1,10):
        try:
            response = requests.post(
                url=constant.APIC_URL + "/api/node/mo/uni/tn-exam%s.json" % (tenant),
                headers={
                    "Cookie": "APIC-cookie=" + token,
                    "Content-Type": "application/json; charset=utf-8",
                },
                data=json.dumps({
                    "fvTenant": {
                        "attributes": {
                            "status": "created",
                            "dn": "uni/tn-exam%s" % (tenant),
                            "name": "exam%s" % (tenant),
                            "rn": "tn-exam%s" % (tenant)
                        },
                        "children": [
                        ]
                    }
                })
            )
            print("Response HTTP Status Code: {status_code}'.format(
                status_code=response.status_code))
            print("Response HTTP Response Body: {content}'.format(
                content=response.content))
        except requests.exceptions.RequestException:
            print('HTTP Request failed')
    add_tenant()
```

Assuming a new ACI instance, what is the result when this script is run?

A. Ten objects are created and subsequently deleted.

- B. Nine objects are created.
- C. An exception is thrown.
- D. Ten objects are created.

Correct Answer: B

QUESTION 2

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 3

When the Cisco bigmuddy-network-telemetry-collector from GitHub is used, which command displays only the message headers?

- A. --print
- B. --all
- C. --brief
- D. --print-all

Correct Answer: C

Reference: <https://github.com/cisco/bigmuddy-network-telemetry-collector>

QUESTION 4

What are two capabilities of the DCNM REST API? (Choose two.)

- A. uses the dcnm-token header for requests authentication after initial basic authentication
- B. uses basic authentication without encoding for username and password
- C. supports HTTP until release 11.0(1)

D. uses bearer key authorization

E. is separated into Classic LAN, LAN Fabric, Media Controller, and SAN Management categories

Correct Answer: CD

Reference:

<https://developer.cisco.com/docs/data-center-network-manager/#!cisco-dcnm-classic-lan-rest-api> Check for /rest/logon

QUESTION 5

```
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 6

Which statement about synchronous and asynchronous API calls is true?

- A. Synchronous API calls wait to return until a response has been received.
- B. Synchronous communication is harder to follow and troubleshoot.

- C. Synchronous API calls must always use a proxy server.
- D. Asynchronous communication uses more overhead for client authentication.

Correct Answer: D

QUESTION 7

What are two main guiding principles of REST? (Choose two.)

- A. cacheable
- B. trackable
- C. stateless
- D. single-layer system
- E. stateful

Correct Answer: CD

QUESTION 8

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

QUESTION 9

Which two bootstrap technologies are supported by Cisco NX-OS platforms? (Choose two.)

- A. iPXE
- B. PNP
- C. POAP
- D. BOOTP

E. DHCP

Correct Answer: CE

QUESTION 10

Which iteration creates three EPGs in Cisco ACI using an Ansible task? Some required aci_epg task attributes have been omitted for brevity.

A.

```
aci_epg:
  epg: "{{ item.epg }}"
  loop:
    - item epg:epg1
    - item epg:epg2
    - item epg:epg3
```

B.

```
aci_epg:
  epg: "{{ item.epg }}"
  loop:
    - epg:epg1
    - epg:epg2
    - epg:epg3
```

C.

```
aci_epg:
  epg: "{{ item.epg }}"
  loop:
    item: "{{ epg1 }}"
    item: "{{ epg2 }}"
    item: "{{ epg3 }}"
```

D.

```
aci_epg:
  epg: "{{ item.epg }}"
  loop:
    epg: "{{ epg1 }}"
    epg: "{{ epg2 }}"
    epg: "{{ epg3 }}"
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 11

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:

```
GET/api/v1/compute/RackUnits?$apply=groupby(( [ ] ),  
aggregate(AvailableMemory with [ ] ))
```

max as MaxAvailableMemory	Model
ServerType	max = MaxAvailableMemory

Correct Answer:

```
GET/api/v1/compute/RackUnits?$apply=groupby(( [ Model ] ),  
aggregate(AvailableMemory with [ max as MaxAvailableMemory ] ))
```

[]	[]
ServerType	max = MaxAvailableMemory

QUESTION 12

Refer to the exhibit.

```
switch#
switch#
switch#
switch# run bash
      ^

% Invalid command at "^" marker.
switch#
switch#
```

Which configuration change command must be run on the Cisco NX-OS device to make this command work?

- A. enable bash-shell
- B. bash-shell enable
- C. service bash-shell
- D. feature bash-shell

Correct Answer: D

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/Bash.html#:~:text=NX%2DOS%20VSH,-,Accessing%20Bash,%2DOS%20network%2Dadmin%20role.andtext=Bash%20is%20enabled%20by%20running,home%20directory%20for%20the%20user.

QUESTION 13

Refer to the exhibit.

```
event manager applet eem-correlate
event syslog tag one pattern "copy bootflash:.* running-config.*"
event syslog tag two pattern "copy run start"
event syslog tag three pattern "hello"
tag one or two or three happens 1 in 120
action 1.0 reload module 1
```

What results from the EEM script that runs on a Cisco Nexus 9000 switch?

- A. Module 1 is reloaded if one of the specified console patterns occurs within 120 seconds.

- B. Module 1 is reloaded if one of the specified syslog patterns occurs within 120 seconds.
- C. Module 1 is reloaded if all of the specified syslog patterns occur within 120 seconds.
- D. The message "reload module 1" is printed if one of the specified syslog patterns occurs within 120 seconds

Correct Answer: D

QUESTION 14

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/](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 15

Which two statements about gRPC are true? (Choose two.)

- A. It is an IETF draft.
- B. It is an IETF standard.
- C. It runs over SSH.
- D. It is an open source initiative.
- E. It runs over HTTPS.

Correct Answer: AE

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