

➤ **Vendor: Cisco**

➤ **Exam Code: 300-635**

➤ **Exam Name: Automating and Programming Cisco Data Center Solutions (DCAUTO)**

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QUESTION 1

What is the network bootstrap program used by Cisco NX-OS iPXE?

- A. NETBOOT
- B. NX-OS iPXE
- C. iPXE-POAP
- D. Mini-OS

Answer: A

QUESTION 2

What is a description of a Cisco UCS Director script module?

- A. function to convert internal workflow tasks into Python scripts
- B. place to store custom workflow scripts, jars, and custom lists of values for use in custom workflow tasks
- C. place to store external scripts that are not related to Cisco UCS Director
- D. place to store imported scripts, Bash, and custom Python code for use in custom workflow tasks

Answer: B

QUESTION 3

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.

Answer: C

QUESTION 4

Which step must be taken to enable the REST API browser within Cisco UCS Director?

- A. Edit the user profile and enable developer options.
- B. Raise a case with TAC.
- C. The REST API browser is automatically enabled in Cisco UCS Director when a Power User is created.

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D. Log in as the user "REST".

Answer: A

QUESTION 5

Refer to the exhibit. Which change allows the code to configure VLAN 10 in the Cisco UCS?

```
1  from ucsm.sdk.ucshandle import UcsHandle
2  from ucsm.sdk.mometa.fabric.FabricVlan import FabricVlan
3
4  handle = UcsHandle("corpucsm.example.com", "admin", "MySecretPassword")
5  handle.login()
6
7  fabric_lan_dn = handle.query_dn("fabric/lan")
8  newvlan = FabricVlan(parent_mo_or_dn=fabric_lan_dn,
9      name="vlan10",
10     id="10")
11
12  handle.add_mo(newvlan)
13
14  handle.logout()
```

- A. Lines 8 and 9 should have a line continuation \ at the end.
- B. Line 13 should include "handle.commit()".
- C. Line 4 should include transport 443 option.
- D. Line 3 should add an import for query_dn.

Answer: C

QUESTION 6

Which programming language are the Cisco UCS Director custom workflow tasks written in?

- A. C++
- B. Python
- C. Java
- D. Clouvia Script

Answer: C

QUESTION 7

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-Clouvia-Request-Key: ((User's Auth Token))

Answer: B

QUESTION 8

Drag and Drop Question

A file named myfunc.py has been edited. Drag and drop the steps from the left that ensure that this file is committed to

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the local Git repository and verify its status into the correct order on the right. Not all options are used.

<code>git add .</code>	step 1
<code>git add</code>	step 2
<code>git status</code>	step 3
<code>git commit -m "new function"</code>	
<code>git commit -msg "new function"</code>	

Answer:

	<code>git status</code>
<code>git add</code>	<code>git add .</code>
	<code>git commit -m "new function"</code>
<code>git commit -msg "new function"</code>	

QUESTION 9

Drag and Drop Question

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.

```
import requests

response = requests.post(
    'https://apic/api/aaaLogin.json',
    json={"aaaUser": {"attributes": {"name": "admin", "pwd": "ciscopsdt"}},
    verify=False)

token = response.json()['imdata'][0]['aaaLogin']['attributes']['token']
url = 'https://apic/api/mo/uni/tn-MyCompany.xml'

headers = {'Content-Type': 'text/xml'}
cookie = {'APIC-cookie': token}

response =

print(response.text)
```

```
payload = {
    "fvTenant" : {"name": "MyCompany"},
    "fvApp": "WebApp" }
```

```
requests.request("POST", url, data=payload,
headers=headers, cookies=cookie,
verify=False)
```

```
payload = '<fvAp name="WebApp" />'
```

```
payload = '<fvAp name="MyCompany/WebApp" >'
```

```
requests.request("POST", url, data=payload,
headers={'Content-Type': 'application/json'},
verify=False)
```

```
requests.request("PATCH", url, data=payload,
headers=headers, cookies=cookie,
verify=False)
```

Answer:

```
import requests

response = requests.post(
    'https://apic/api/aaaLogin.json',
    json={"aaaUser": {"attributes": {"name": "admin", "pwd": "ciscopsdt"}},
    verify=False)

token = response.json()['imdata'][0]['aaaLogin']['attributes']['token']
url = 'https://apic/api/mo/uni/tn-MyCompany.xml'

payload = {
    "fvTenant" : {"name": "MyCompany"},
    "fvApp": "WebApp" }

headers = {'Content-Type': 'text/xml'}
cookie = {'APIC-cookie': token}

response = requests.request("POST", url, data=payload,
headers=headers, cookies=cookie,
verify=False)

print(response.text)
```

```
payload = '<fvAp name="WebApp" />'
```

```
payload = '<fvAp name="MyCompany/WebApp" >'
```

```
requests.request("POST", url, data=payload,
headers={'Content-Type': 'application/json'},
verify=False)
```

```
requests.request("PATCH", url, data=payload,
headers=headers, cookies=cookie,
verify=False)
```

QUESTION 10

Drag and Drop Question

After a Cisco Nexus switch interface is enabled and in the up state, an engineer must automate the configuration of the

interface descriptions using the EEM Python Module.

Drag and drop the steps the engineer must take from the left into the correct order on the right.

event syslog pattern "IF_UP"	step 1
exit	step 2
event manager applet link monitor	step 3
conf t	step 4
action 1 cli command "source cdp_description.py"	step 5

Answer:

conf t
event manager applet link monitor
event syslog pattern "IF_UP"
action 1 cli command "source cdp_description.py"
exit

Explanation:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/datamodels/configuration/xe-16/data-models-xe-16-book/python-scripting-for-eem.html>

QUESTION 11

Drag and Drop Question

When a switch boots it does not find its startup-config file. Drag and drop the steps that Power-On Auto Provisioning goes through to configure the switch for remote management from the left into the correct order on the right. Not all options are used.

DHCP assigns the switch an IP address, default gateway, and IP address that are tracked by the Domain Name System server.	step 1
The switch searches for a Domain Host Configuration Protocol service on the network.	step 2
The switch launches a container with Contiv.	step 3
POAP gets the IP address of a script server, downloads the correct script for the switch, and runs the script on the switch.	

Answer:

The switch searches for a Domain Host Configuration Protocol service on the network.
DHCP assigns the switch an IP address, default gateway, and IP address that are tracked by the Domain Name System server.
POAP gets the IP address of a script server, downloads the correct script for the switch, and runs the script on the switch.
The switch launches a container with Contiv.

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/fundamentals/configuration/guide/b_Cisco_Nexus_9000_Series_NX-OS_Fundamentals_Configuration_Guide/b_Cisco_Nexus_9000_Series_NX-OS_Fundamentals_Configuration_Guide_chapter_011.pdf

QUESTION 12

Drag and Drop Question

Drag and drop the items to complete the request to retrieve the current firmware of Cisco UCS devices from the Cisco Intersight API. Not all items are used.

<input type="text"/>	"https://intersight.com/api/v1
<input type="text"/>	/ <input type="text"/> "

- | | |
|-----------------|------------------|
| asset | RunningFirmwares |
| UpgradeStatuses | POST |
| GET | firmware |

Answer:

GET	"https://intersight.com/api/v1
firmware	/ RunningFirmwares "

- | | |
|-----------------|------|
| asset | |
| UpgradeStatuses | POST |

Explanation:

<https://developer.cisco.com/codeexchange/github/repo/CiscoUcs/intersight-python/>

QUESTION 13

Drag and Drop Question

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.

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

max as MaxAvailableMemory Model

ServerType max = MaxAvailableMemory

Answer:

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

ServerType max = MaxAvailableMemory

QUESTION 14

Which option must be created to allow one EPG to communicate with another EPG within same tenant?

- A. a filter
- B. a taboo
- C. a subject
- D. a contract

Answer: D

QUESTION 15

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

Answer: B

QUESTION 16

Which two benefits of using network configuration tools such as Ansible and Puppet to automate data center platforms are valid? (Choose two.)

- A. consistency of systems configuration
- B. automation of repetitive tasks
- C. ability to create device and interface groups
- D. ability to add VLANs and routes per device
- E. removal of network protocols such as Spanning Tree

Answer: AB

QUESTION 17

A set of automation scripts work with no issue from a local machine, but an experiment needs to take place with a new

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package found online.

How is this new package isolated from the main code base?

- A. Add the new package to your requirements.txt file.
- B. Create a new virtual machine and perform a pip install of the new package.
- C. Perform a pip install of the new package when logged into your local machine as root.
- D. Create a new virtual environment and perform a pip install of the new package.

Answer: D

QUESTION 18

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.

Answer: AE

QUESTION 19

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.

Answer: C

QUESTION 20

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

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

Answer: AC