

Cisco

Exam Questions 200-901

Developing Applications and Automating Workflows using Cisco Core Platforms (DEVASC)



NEW QUESTION 1

- (Exam Topic 2)

Drag and drop the code from the bottom onto the box where the code is missing in the Python script to complete a function to return all the clients on a network by using the Cisco Meraki Dashboard API. Not all options are used.

```
import requests
import json
url = 'https://dashboard.meraki.com/api/v0/'
headers = {' ': '0110c4e1b8a1',
           'Content-Type': ' '}
orgs = json.loads(requests.get(url+'organizations', headers=headers).text)

for org in orgs:
    nets = json.loads(requests.get(url+'organizations/'+org['id']+'/networks',
    headers=headers).text)
    for net in nets:
        clients = json.loads(requests.get(
            url+ ' '/'+net['id']+'/ ',
            headers=headers).text)
        for client in clients:
            print(client['ip'])
```

client

application/json

application/xml

clients

X-Cisco-Meraki-API-Key

networks

Authorization: Bearer

Solution:

```
import requests
import json
url = 'https://dashboard.meraki.com/api/v0/'
headers = {'X-Cisco-Meraki-API-Key': '0110c4e1b8a1',
           'Content-Type': 'application/json '}
orgs = json.loads(requests.get(url+'organizations', headers=headers).text)

for org in orgs:
    nets = json.loads(requests.get(url+'organizations/'+org['id']+'/networks',
    headers=headers).text)
    for net in nets:
        clients = json.loads(requests.get(
            url+ 'clients '/'+net['id']+' networks ',
            headers=headers).text)
        for client in clients:
            print(client['ip'])
```

client

application/xml

Authorization: Bearer

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 2

- (Exam Topic 2)

What is a benefit of organizing code into modules?

- A. improves overall performance
- B. reduces the length of code
- C. enables code to be multifunctional
- D. enables the reuse of code

Answer: D

NEW QUESTION 3

- (Exam Topic 2)

Drag and drop the code snippets from the bottom into the Python script to write API output to a csv file. Not all options are used.

```
#!/usr/bin/env python3
import csv
import json
import 
#Create a request to grab info in api
response = requests. ('http://api.zippopotam.us/us/80301')

try:
    with open('80301.json', 'w') as outfile:
        json.dump(response.json(), outfile)
    print(.json())
except Exception as e:
    print(e)

with open('80301.csv', 'w') as outfile:
    json.dump(response.json(), outfile)
print(response.)
```

response

requests

request

get

status_code

status

Solution:

Graphical user interface, text, application Description automatically generated

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 4

- (Exam Topic 2)

What is the difference between YAML and JSON data structure?

- A. YAML uses spaces; JSON uses parentheses
- B. YAML uses indentation; JSON uses brackets and braces
- C. YAML uses brackets and braces; JSON uses indentation
- D. YAML uses parentheses; JSON uses spaces

Answer: A

NEW QUESTION 5

- (Exam Topic 2)

Drag and drop the code from the bottom onto the box where the code is missing in the Bash script to complete the missing assignment.

```
#!/bin/bash

 = 'date +%b-%d-%y'
 = /home/usr/path/backup-$BACKUPTIME.tar.gz
 = /home/usr/path/data_folder

tar -cpzf $DESTINATION $SOURCEFOLDER
```

BACKUPTIME

SOURCEFOLDER

DESTINATION

Solution:

```
#!/bin/bash
```

```
BACKUPTIME = `date +%b-%d-%y`
```

```
DESTINATION = /home/usr/path/backup-$BACKUPTIME.tar.gz
```

```
SOURCEFOLDER = /home/usr/path/data_folder
```

```
tar -cpzf $DESTINATION $SOURCEFOLDER
```

```
BACKUPTIME
```

```
SOURCEFOLDER
```

```
DESTINATION
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 6

- (Exam Topic 2)

Refer to the exhibit.

Code:

```
import requests

url = 'https://en.wikipedia.org/api/rest_v1/page/title/Cisco_Systems'
s = requests.Session()

def get_json(session=None, url="https://example.com"):
    try:
        if not session or type(session) is not requests.sessions.Session:
            raise Exception("Invalid session type")

        r = session.get(url)

        if r.status_code < 200 or r.status_code > 307:
            raise Exception("Status Code not within 2xx and 3xx")

        return r.json()

    except requests.exceptions.RequestException as e:
        raise e("Request failed")
    finally:
        session.close()

if __name__ == "__main__":
    items = get_json(session=s, url=url)
    [REDACTED]
```

payload:

```
{'items': [{'title': 'Cisco_Systems', 'page_id': 51746, 'rev': 930604297,
'tid': '58b40b30-20e7-11ea-a7a9-f1850c7cfe85', 'namespace': 0, 'user_id':
19450869, 'user_text': 'Dhruvh', 'timestamp': '2019-12-13T16:47:52Z', 'comment': '/* 1984-1995: Origins
and initial growth */', 'tags': [], 'restrictions': [], 'page_language':
'en', 'redirect': False}]}
```

Which command needs to be placed on the box where the code is missing to output the value of page_id in the Python 3.7 script?

A)

```
print(items['items']['page_id'])
```

B)

```
print(items.get('items').get('page_id'))
```

C)

```
print(items.get('items')[0].get('page_id'))
```

D)

```
print(items['items']['page_id'].keys())
```


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NEW QUESTION 7

- (Exam Topic 2)

Which platform is used to programmatically create a space and invite users for collaboration?

- A. Cisco Intersight
- B. Cisco Finesse
- C. Cisco Webex
- D. Cisco UCM

Answer: C

NEW QUESTION 8

- (Exam Topic 2)

Where is an IP packet routed if the packet does not match any routes in the routing table?

- A. firewall
- B. load balancer
- C. central switch
- D. default gateway

Answer: D

NEW QUESTION 9

- (Exam Topic 2)

What are two key capabilities of Cisco Finesse? (Choose two.)

- A. Finesse includes an RPC API that enables the development of custom gadgets.
- B. Agents access Finesse from a browser without needing to install or configure anything on the client machine.
- C. Finesse automatically collects telemetry data
- D. An OpenDNS utility is preconfigured and ready to use on Finesse.
- E. Gadget containers provide a seamless experience in a single user interface.

Answer: BE

NEW QUESTION 10

- (Exam Topic 1)

Which service provides a directory lookup for IP addresses and host names?

- A. DNS
- B. DHCP
- C. SNMP
- D. NAT

Answer: A

NEW QUESTION 11

- (Exam Topic 1)

Fill in the blanks to complete the python script to retrieve a list of network devices using the Cisco DNA center API.

```
import requests
url = "https://myDNAserver/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWUiOiI1ZDE0OWZkMjhlZTY2MmQ3NGM5YzE5ZTIiLCJmYyZMcGlzImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraXN371274739.zhK5LPQd501ZUpZI0IH_qrgOXtllNbxSFFF7JOEtRIs'}
}
response = requests.request( , url,
headers = , data = )
print(response.text.encode('utf8'))
```

Solution:

Solution as below.

```

import requests
url = "https://myDNAServer/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2MmQ3NGM5YzE5ZTIiLmYzMCIsImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUraXN371387657.zhK5LPQd501ZUpZi0IH_qrgOXtItINbxSFFF7JOEtRIs'}
response = requests.request("GET", url, headers=headers, data=payload)
print(response.text.encode('utf8'))

```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 12

- (Exam Topic 1)

What is an example of a network interface hardware address?

- A. domain name
- B. IP address
- C. workstation name
- D. MAC address

Answer: D

NEW QUESTION 13

- (Exam Topic 1)

Which two concepts describe test-driven development? (Choose two.)

- A. It enables code refactoring.
- B. Write a test before writing code.
- C. Implementation is driven by incremental testing of release candidates.
- D. User acceptance testers development the test requirements.
- E. Tests are created when code is ready for release.

Answer: BC

Explanation:

https://www.tutorialspoint.com/software_testing_dictionary/release_candidate.htm

NEW QUESTION 14

- (Exam Topic 1)

Which two statements are true about Cisco UCS manager, Cisco Intersight APIs? (Choose two.)

- A. Cisco Intersight API interactions can be encoded in XML or JSON and require an APIs key in the HTTP header for authentication.
- B. USC Director API interactions can be XML- or JSON-encoded and require an APLs key in the HTTP header for authentication.
- C. UCS manager API interactions are XML-encoded and require a cookie in the method for authentication.
- D. Cisco Intersight uses XML to encoded API interactions and requires an API key pair for authentication.
- E. UCS manager uses JSON to encode API interactions and utilizes Base64-encoded credentials in the HTTP header for authentication.

Answer: BC

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/rest-api-getting-started-guide/6-5/cis

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/api/b_ucs_api_book.pdf

NEW QUESTION 15

- (Exam Topic 1)

What is the purpose of a firewall in application deployment?

- A. adds TLS support to an application that does not support it natively
- B. forwards traffic to a pool of instances of the application
- C. provides translation for an application's hostname to its IP address
- D. limits traffic to only ports required by the application

Answer: D

NEW QUESTION 16

- (Exam Topic 1)

Drag and drop the Python code from the left onto the correct step on the right to call a REST API.

<pre>response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)</pre>	Step 1 – Import the correct libraries.
<pre>ticket = r_json["Token"] print (ticket)</pre>	Step 2 – Declare the necessary variable.
<pre>(_json = response.json() print(r_json)</pre>	Step 3 – Send the HTTP Request.
<pre>import requests import json</pre>	Step 4 – Format and display the response in JSON readable format.
<pre>controller = 'devnetapi.cisco.com/sandbox/dnacenter' url = 'https://' + controller + '/dna/system/api/v1/auth/token' payload = { 'username': 'devnetuser', 'password': 'pa55word' } header = { 'Content-type': 'application/json' }</pre>	Step 5 – Parse the response to display the Service Ticket.

Solution:

<pre>response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)</pre>	<pre>import requests import json</pre>
<pre>ticket = r_json["Token"] print (ticket)</pre>	<pre>controller = 'devnetapi.cisco.com/sandbox/dnacenter' url = 'https://' + controller + '/dna/system/api/v1/auth/token' payload = { 'username': 'devnetuser', 'password': 'pa55word' } header = { 'Content-type': 'application/json' }</pre>
<pre>(_json = response.json() print(r_json)</pre>	<pre>response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)</pre>
<pre>import requests import json</pre>	<pre>(_json = response.json() print(r_json)</pre>
<pre>controller = 'devnetapi.cisco.com/sandbox/dnacenter' url = 'https://' + controller + '/dna/system/api/v1/auth/token' payload = { 'username': 'devnetuser', 'password': 'pa55word' } header = { 'Content-type': 'application/json' }</pre>	<pre>ticket = r_json["Token"] print (ticket)</pre>

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 17

- (Exam Topic 1)

Which REST architectural constraint indicates that no client context should be stored on the server between requests?

- A. stateless
- B. uniform interface
- C. cacheable
- D. client-server

Answer: A

Explanation:

Reference: <https://developer.cisco.com/docs/nx-os/#!representational-state-transfer-rest>

NEW QUESTION 18

- (Exam Topic 1)

Refer to the exhibit.


```
def get_result()

    url = "https://sandboxdnac.cisco.com/dna/system/api/v1/auth/token"

    resp = requests.post(url, auth=HTTPBasicAuth(DNAC_USER, DNAC_PASSWORD))

    result = resp.json()['Token']

    return result
```

What does the python function do?

- A. It returns DNAC user and password.
- B. It returns HTTP Basic Authentication.
- C. It returns an authorization token.
- D. It reads a token from a local JSON file and posts the token to the DNAC URL.

Answer: C

NEW QUESTION 19

- (Exam Topic 1)

A REST API service requires authentication based on the username and password. The user "john" has the password "384279060" and the Base64 encoding of those credentials is "am9objowMTIzNDU2Nzg=". Which method completes an authentication request?

- A. The header must include: Authorization: Bearer am9objowMTIzNDU2Nzg=
- B. The payload must include: Authorization: Bearer am9objowMTIzNDU2Nzg=
- C. The payload must include: Authorization: Basic am9objowMTIzNDU2Nzg=
- D. The header must include: Authorization: Basic am9objowMTIzNDU2Nzg=

Answer: D

NEW QUESTION 20

- (Exam Topic 3)

A developer is running an application that connects to the Cisco website and collects data. The application will be hosted in a local data center and the data will need to be collected on a frequent basis. The application client requires certain environmental variables to be set before the run. Which Bash command sets the environmental variables for a Linux system?

- A. `"cisco.com"=WEBSITE`
- B. `export lvar=23`
- C. `WEBSITE="cisco.com"`
- D. `export website="cisco.com"`

Answer: D

NEW QUESTION 21

- (Exam Topic 3)

Drag and drop the code from the bottom onto the box where the code is missing to enable ports on a switch by using RESTCONF. Not all options are used.


```
def enable_function(if_name, if_status, if_type):
    headers = {'Accept': 'application/yang-data+json',
               'Content-Type': 'application/' + [ ]}
    payload = {
        [ ]: {
            "name": if_name,
            "enabled": if_status,
            "type": if_type,
        }
    }
    [ ] = 'https://192.168.1.1:8443'
    restconf_url = '/restconf/data/ietf-interfaces:interfaces/interface'
    res = requests.put(f'{base_url}{restconf}={if_name}',
                      headers=headers, json=payload,
                      auth=('cisco', 'secret'), verify=False)

enable_function('Loopback1', true, [ ])
```

yang-data+json

application/xml

ietf-interfaces:interface

iana-if-type:softwareLoopback

base_url

run_function

iana-if-type:ethernetCsmacd

Solution:

```
def enable_function(if_name, if_status, if_type):
    headers = {'Accept': 'application/yang-data+json',
               'Content-Type': 'application/' + [yang-data+json]}
    payload = {
        [ietf-interfaces:interface]: {
            "name": if_name,
            "enabled": if_status,
            "type": if_type,
        }
    }
    [base_url] = 'https://192.168.1.1:8443'
    restconf_url = '/restconf/data/ietf-interfaces:interfaces/interface'
    res = requests.put(f'{base_url}{restconf}={if_name}',
                      headers=headers, json=payload,
                      auth=('cisco', 'secret'), verify=False)

enable_function('Loopback1', true, [iana-if-type:ethernetCsmacd])
```

yang-data+json

application/xml

ietf-interfaces:interface

iana-if-type:softwareLoopback

base_url

run_function

iana-if-type:ethernetCsmacd

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 22

- (Exam Topic 3)

Drag and drop the API characteristics from the left onto the categories on the right.

- The API is seen as a function call.
- There is communication between server and client.
- It follows a resource-oriented model.
- The API can be stateless.

REST

RPC

Solution:
Graphical user interface, application Description automatically generated

Does this meet the goal?

- A. Yes
B. No

Answer: A

NEW QUESTION 23

- (Exam Topic 3)
Drag and drop the code from the bottom onto the box where the code is missing to complete the error path scenario. Not all options are used.

```
import pytest
class Player:
    def __init__(self, name):
        self.name = name
        [ ]
    def set_rating(self, rating):
        if rating or rating is int(0):
            [ ]:
                raise ValueError('rating is invalid', rating)
            else:
                [ ]
                return True
        else:
            return False
@pytest.fixture
def player():
    player = Player('User One')
    yield player
    del player
@pytest.mark.usefixtures('player')
class TestErrorPathSetRating:
    def test_add_higher_rating(self, player):
        with pytest.raises(ValueError):
            player.set_rating(101)
    def test_add_invalid_rating(self, player):
        with pytest.raises(ValueError):
            [ ]
    def test_add_lower_rating(self, player):
        with pytest.raises(ValueError):
            player.set_rating(-1)
```

- player.set_rating(0)
- player.set_rating(85)
- if rating < 1 or rating > 100:
- self.rating = None
- if rating != 0:
- if rating or rating is int(0):
- self.rating = rating

Solution:

```
import pytest
class Player:
    def __init__(self, name):
        self.name = name
        self.rating = None
    def set_rating(self, rating):
        if rating or rating is int(0):
            if rating < 1 or rating > 100:
                raise ValueError('rating is invalid', rating)
            else:
                if rating != 0:
                    return True
        else:
            return False
@pytest.fixture
def player():
    player = Player('User One')
    yield player
    del player
@pytest.mark.usefixtures('player')
class TestErrorPathSetRating:
    def test_add_higher_rating(self, player):
        with pytest.raises(ValueError):
            player.set_rating(101)
    def test_add_invalid_rating(self, player):
        with pytest.raises(ValueError):
            player.set_rating(0)
    def test_add_lower_rating(self, player):
        with pytest.raises(ValueError):
            player.set_rating(-1)
```

player.set_rating(0)	if rating != 0:
player.set_rating(85)	if rating or rating is int(0):
if rating < 1 or rating > 100:	self.rating = rating
self.rating = None	

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 24

- (Exam Topic 3)

Refer to the exhibit.

```
git clone git://git.kernel.org/.../git.git my.git
cd my.git
git branch -d -r origin/todo origin/html origin/man (1)
git branch -D test (2)
```

What does the command marked (2) do when it is run?

- A. It duplicates the test" branch.
- B. It deletes the "test" branch only if a new branch is created.
- C. It deletes the "test" branch.
- D. It does not delete the branch until it is merged.

Answer: C

NEW QUESTION 25

- (Exam Topic 3)

A development team is creating an application used for contactless payments. The application must: Be web-based Capture and process the credit card information for a purchase.

Which security action must the web application use to gather and process the private customer data?

- A. Enable RATs to monitor the web application remotely.
- B. Disable botnets to eliminate risks.
- C. Disable TLS to increase the connection speed.
- D. Enable the encryption of network traffic.

Answer: D

NEW QUESTION 26

- (Exam Topic 3)

Which port does HTTPS use by default?

- A. 433
- B. 443
- C. 803

D. 883

Answer: B

NEW QUESTION 27

- (Exam Topic 3)

A developer pushes an application to production. The application receives a webhook over HTTPS without a secret. The webhook information contains credentials to service in cleartext. When the information is received, it is stored in the database with an SHA-256 hash. Credentials to the database are accessed at runtime through the use of a vault service. While troubleshooting, the developer sets the logging to debug to view the message from the webhook. What is the security issue in this scenario?

- A. Database credentials should be accessed by using environment variables defined at runtime.
- B. During the transport of webhook messages, the credentials could be unencrypted and leaked.
- C. During logging, debugging should be disabled for the webhook message.
- D. Hashing the credentials in the database is not secure enough; the credentials should be encrypted.

Answer: B

NEW QUESTION 28

- (Exam Topic 3)

Which two situations align with infrastructure as code principles? (Choose two.)

- A. nonreplicable snowflake servers
- B. release versions to specific hardware
- C. maximized configuration drift
- D. easily reproducible systems
- E. repeatable processes

Answer: BD

NEW QUESTION 29

- (Exam Topic 3)

A developer creates an application that must provide an encrypted connection or API keys. The keys will be used to communicate with a REST API. Which command must be used for the secure connection?

- A. curl-X PUSH 'http://username.app.com/endpoint/?api_key=12345abcdef'
- B. curl -v 'ftp://username.app.com/endpoint/?api_key=12345abcdef'
- C. curl -X GET 'https://username.app.com/endpoint/?api_key=12345abcdef'
- D. curl-X GET 'http://username.app.com/endpoint/?api_key=12345abcdef'

Answer: C

NEW QUESTION 30

- (Exam Topic 3)

What is the purpose of grouping devices in a VLAN?

- A. Devices communicate as if they are connected on the same wire.
- B. Multicast network traffic is limited to the VLAN connected devices.
- C. Unicast messages are limited to the clients connected on the same VLAN.
- D. Network traffic is load balanced between the devices connected to the VLAN.

Answer: B

NEW QUESTION 31

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