

# Cisco

## Exam Questions 200-901

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



NEW QUESTION 1

- (Exam Topic 2)

A developer needs a list of clients connected to a specific device in a Meraki network. After making a REST API call, the developer receives an unfamiliar response code. Which Cisco DevNet resource should be used to identify the meaning of the response code?

- A. API documentation
- B. Sandbox
- C. Learning Labs
- D. Code Exchange

Answer: A

NEW QUESTION 2

- (Exam Topic 2)

Drag and drop the types of management from the left onto the levels at which they are performed on the right.

user and programmability interaction through the use of lower level APIs

user and programmability interaction through the use of Northbound APIs

iterate over a list of devices

configure features with YANG models

Controller level

Device level

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, application Description automatically generated with medium confidence

NEW QUESTION 3

- (Exam Topic 2)

Which application should be used to externally access all applications deployed in the same host machine with a single public IP address and port, when each application listens on different local ports?

- A. reverse proxy
- B. load balancer
- C. DNS
- D. firewall

Answer: D

NEW QUESTION 4

- (Exam Topic 2)

Devices

## Get Device Count

**Operation Id:** `getDeviceCount`

**Description:** Returns the count of network devices based on the filter criteria by management IP address, mac address, hostname and location name

GET

/dna/intent/api/v1/network-device/count

## Request Parameters

## Responses

**Status:** 200

The request was successful. The result is contained in the response body.

Schema Definition

Example Body

[-]

CountResult

response: integer

version: string

+ -

Refer to the exhibit. Drag and drop the code snippets from the bottom onto the blanks in the code to construct a request to find the Cisco DNA Center switch count. Not all options are used.

```
curl -L --request [ ] \
-- [ ] https:///dna/intent/api/v1/network-device/ [ ] \
--header ' [ ] : application/json' \
--header 'Accept: application/json'
```

url	network	count
POST	GET	Content-Type

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

```
curl -L --request GET \
-- url https:///dna/intent/api/v1/network-device/ count \
--header 'Content-Type : application/json' \
--header 'Accept: application/json'
```

url	network	count
POST	GET	Content-Type

**NEW QUESTION 5**  
 - (Exam Topic 2)  
 Refer to the exhibit.

```

1 import requests
2 import json
3
4 BASE_URL = "https://<IP Address>"
5 FIRST_URL = "/dna/intent/api/v1/network-device"
6 SECOND_URL = "/dna/intent/api/v1/network-device-poller/cli/read-request"
7 THIRD_URL = "/dna/intent/api/v1/task/{task_id}"
8 FOURTH_URL = "/dna/intent/api/v1/file/{file_id}"
9
10 headers = {"X-Auth-Token": "TOKEN", "Content-Type": "application/json"}
11
12 params = {"platformId": "C9500-40X"}
13 response = requests.get(BASE_URL + FIRST_URL, headers=headers, params=params)
14 devices = []
15 for device in response.json()["response"]:
16     devices.append(device["id"])
17
18     payload = {
19         "commands": ["show version", "show ip int brief"],
20         "deviceUuids": devices,
21         "timeout": 0,
22     }
23 response = requests.post(BASE_URL + SECOND_URL, data=json.dumps(payload),
24     · headers=headers)
25 task_id = response.json()["response"]["taskId"]
26 response = requests.get(BASE_URL + THIRD_URL.format(task_id=task_id),
27     · headers=headers)
28 progress_json = json.loads(response.json()["response"]["progress"])
29 file_id = progress_json("fileId")
30 response = requests.get(BASE_URL + FOURTH_URL.format(file_id=file_id),
31     · headers=headers)
32 file_json = response.json()
33 for cmd in file_json:
34     print(file_json[cmd]["commandResponses"]["SUCCESS"]["show ip int brief"])

```

A network engineer must collect information from the network using Cisco DNA Center APIs. The script must query for the devices with 'platformId' 'C9540-x' and then send commands to be executed. Which process is automated by the Python script?

- A. results gathering of the show version and show ip int brief commands
- B. output of show ip int brief command on devices of type C9500-40X
- C. execution information of the show version and show ip int brief commands
- D. list of executed commands on C9500-40X and the information of show ip int brief command

**Answer: B**

#### NEW QUESTION 6

- (Exam Topic 2)

Refer to the exhibit.

```

1 - hosts: servers
2   tasks:
3
4     - name: task1
5       systemd:
6         name: webexbot
7         state: stopped
8
9     - name: task2
10      apt:
11        name: teamsbot
12
13     - name: task3
14      apt:
15        name: webexbot
16        state: absent
17        purge: yes

```

A developer must integrate a bot with an internal communication app. The developer wants to replace the webexbot package with the teamsbot package by using Ansible and prepares a playbook. In the first two tasks, the playbook stops the webexbot and verifies that the teamsbot is installed. What is accomplished in the last task of the workflow when the developer runs the Ansible playbook?

- A. stops the webexbot service and uninstalls it and retains its configuration files
- B. installs the webexbot and retains the configuration files
- C. uninstalls the webexbot package and removes its configuration files
- D. searches whether the purge package is available in the repository and uninstalls the webexbot package



Answer: C

#### NEW QUESTION 7

- (Exam Topic 2)

Refer to the exhibit.

```
1  from requests import request
2  from requests.auth import HTTPBasicAuth
3  from sys import argv
4  url = "https://" + argv[1] + ":443/restconf/data/native/ip/route"
5  auth = HTTPBasicAuth('developer', 'Cisc012345')
6  payload = {
7      "Cisco-IOS-XE-native:route": {
8          "ip-route-interface-forwarding-list": [
9              {
10                 "prefix": argv[2],
11                 "mask": argv[3],
12                 "fwd-list": [
13                     {
14                         "fwd": "GigabitEthernet2",
15                         "interface-next-hop": [
16                             {
17                                 "ip-address": argv[4]
18                             }
19                         ]
20                     }
21                 ]
22             }
23         ]
24     }
25 }
26 headers = {
27     'Content-Type': 'application/yang-data+json',
28     'Accept': 'application/yang-data+json',
29 }
30 response = request("PATCH", url, auth=auth, headers=headers, json = payload,
31                     verify=False)
```

A network engineer must change the configuration on devices daily. The Python script must collect CLI arguments from the user, organize data according to the Cisco-IOS-XE-native YANG model, and utilize Cisco REST APIs to make the configuration. Which workflow is being automated by the Python script?

- A. updating an existing route on the device
- B. adding a new route to a device
- C. including a route on the device and overwriting the current routes
- D. deleting the route that is passed through the command-line variables

Answer: A

#### NEW QUESTION 8

- (Exam Topic 2)

Refer to the exhibit.

```
import requests
from requests.auth import HTTPBasicAuth
from config import url, username, password
response = requests.login(url, auth=HTTPBasicAuth (username, password), verify=False)
print response.status_code
```

The script returns an output of 401. To use the supplied URL, an HTTP GET request must be sent with an Authorization header. The header value is a Base64 encoded concatenation of the username and password. Which action must be taken to return an output of 200?

- A. Change the verify=False setting in the request to verify=True to enable HTTP Basic authentication
- B. Modify the method from LOGIN to GET and supply the username ;password value as JSON payload
- C. Verify that the username and password values imported from the configuration file are still valid.
- D. Insert an Authorization header with the values username password from the supplied configuration file.

Answer: C

#### NEW QUESTION 9

- (Exam Topic 2)

Refer to the exhibit.

```

1 def enable_function(if_name, if_status, if_type):
2     headers = {'Accept': 'application/yang-data+json',
3               'Content-Type': 'application/yang-data+json'}
4     payload = {
5         "ietf-interfaces:interface": {
6             "name": if_name,
7             "enabled": if_status,
8             "type": if_type,
9         }
10    }
11    base_url = 'https://192.168.1.1:8443'
12    restconf_url = '/restconf/data/ietf-interfaces:interfaces/interface'
13
14    res = requests.put(f'{base_url}{restconf_url}={if_name}',
15                      headers=headers, json=payload,
16                      auth=('cisco', 'secret'), verify=False)

```

A network engineer wants to automate the port enable/disable process on specific Cisco switches. The engineer creates a script to send a request through RESTCONF and uses ietf as the YANG model and JSON as payload. Which command enables an interface named Loopback1?

- A. enable\_function(Loopback1, true, 'iana-if-type:softwareLoopback')
- B. enable\_function('iana-if-type:softwareLoopback', Loopback1, true,)
- C. def enable\_function('iana-if-type:softwareLoopback', Loopback1, false,)
- D. def enable\_function(Loopback1, true, 'iana-if-type:softwareLoopback')

**Answer: D**

#### NEW QUESTION 10

- (Exam Topic 2)

What are two properties of private IP addresses? (Choose two.)

- A. They can be used to access the Internet directly.
- B. They are more secure than public IP addresses.
- C. They are not globally unique.
- D. They can be repeated within the same local network.
- E. They are controlled globally by an IP address registry.

**Answer: BD**

#### NEW QUESTION 10

- (Exam Topic 2)

What are two considerations when selecting the "best route" for a network device to reach its destination? (Choose two.)

- A. MAC address
- B. metrics
- C. administrative distance
- D. IP address
- E. subnet mask

**Answer: BC**

#### NEW QUESTION 11

- (Exam Topic 2)

```

GET getNetworkHttpServers
https://api.meraki.com/api/v0/networks/:networkId/httpServers
List the HTTP servers for a network

AUTHORIZATION
API Key

This request is using an authorization helper from collection Meraki Dashboard
API
HEADERS
Accept
*/ *

```

Refer to the exhibit. A developer is creating a Python script to obtain a list of HTTP servers on a network named office\_east by using the Cisco Meraki API. The request has these requirements:

- Must time out if the response is not received within 2 seconds.
- Must utilize client certificates and SSL certificate verification.
- Must utilize basic authentication that uses a username of admin and a password of cisco.
- Must save the response to an object named response.

Drag and drop the code snippets from the bottom onto the blanks in the code to meet the requirements. Not all options are used.

```
import requests
from requests.auth import HTTPBasicAuth
network = 'office east'
url = 'https://api.meraki.com/api/v0/networks/{}/httpServers'.format (network)
[ ] = requests.get(url=url, headers={ 'Accept': '*/*' },
verify='/etc/pki/tls/certs/ca.pem',
timeout= [ ] ,
[ ] =('/etc/pki/tls/certs/client.pem',
'/etc/pki/tls/certs/client.key'),
auth= [ ] ('admin', 'cisco'))
response.status_code
```

token	response	2
HTTPTokenAuth	HTTPBasicAuth	cert

- A. Mastered  
B. Not Mastered

**Answer: A**

**Explanation:**

Text Description automatically generated

Reference:

<https://community.cisco.com/t5/networking-blogs/authenticating-rest-api-calls-to-dnac-getting-started/ba-p/3658>

**NEW QUESTION 14**

- (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 15**

- (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

- A. Mastered  
B. Not Mastered

**Answer: A**

**Explanation:**

Graphical user interface, text, application Description automatically generated

**NEW QUESTION 18**

- (Exam Topic 2)

A developer is trying to retrieve data over a REST API. The API server responds with an HTTP client error response code. After investigating the response the developer realizes the response has a Retry-After header. What is the root cause of this error?

- A. The REST service is unreachable at the time of the REST request
- B. Too many requests were sent to the REST service in a given amount of time.
- C. An appliance limited the rate of requests to the transport layer.
- D. An appliance limited the rate of requests to the application layer

**Answer: B**

**NEW QUESTION 19**

- (Exam Topic 2)

What is the function of IP address in networking?

- A. specifies the type of traffic that is allowed to roam on a network
- B. represents the unique ID that is assigned to one host on a network
- C. specifies resource's location and the mechanism to retrieve it
- D. represents a network connection on specific devices

**Answer: B**

**NEW QUESTION 20**

- (Exam Topic 2)

Drag and drop the code snippets from the bottom to the blanks in the code to complete the HTTP response. Not all options are used.

Request URL: http://www.example.com/

: GET

: 200 OK

Remote Address: [2606:2800:220:1:248:1893:25c8:1946]:80

Referrer Policy: strict-origin-when-cross-origin

Response Headersview source

Accept-Ranges: bytes

Age: 396561

Cache-Control: max-age=604800

: gzip

Content-Length: 648

: text/html; charset=UTF-8

Date: Sat, 20 Nov 2020 20:49:34 GMT

Etag: "3147526947+ident"

Expires: Sat, 21 Nov 2020 20:49:34 GMT

Last-Modified: Thu, 17 Oct 2019 07:18:26 GMT

Server: ECS (dna/63AA)

Vary: Accept-Encoding

X-Cache: HIT

Request Headersview source

Accept: text/html,application/xhtml+xml,application/xml;q=0.9, image/avif,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3;q=0.9

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Request Type	Request Control
Status Code	Content-Type
Request Method	Content Code
Content-Encoding	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Graphical user interface, text, application Description automatically generated

**NEW QUESTION 22**

- (Exam Topic 2)

How does a synchronous API request differ from an asynchronous API request?



- A. clients receive responses with a task id for further processing
- B. clients subscribe to a webhook for operation results
- C. clients are able to access the results immediately
- D. clients poll for the status of the execution of operations

**Answer:** C

#### NEW QUESTION 25

- (Exam Topic 2)

Refer to the exhibit.

```
Returns the wireless lan controller info with given device ID:

{
  "response": {
    "adminEnabledPorts": [ 0 ],
    "apGroupName": "string",
    "deviceId": "string",
    "ethMacAddress": "string",
    "flexGroupName": "string",
    "id": "string",
    "instanceTenantId": "string",
    "instanceUuid": "string",
    "lagModeEnabled": true,
    "netconfEnabled": true,
    "wirelessLicenseInfo": "ADVANTAGE",
    "wirelessPackageInstalled": true
  },
  "version": "string"
}
```

Drag and drop the code from the bottom onto the blanks in the code to construct a cURL command using the Cisco DNA Center API. which will provide the details of a WLAN controller with Id af397748444. Not at options are used.

#### Answer Area

```
curl -L --request GET \
--url https://dna/intent/api/v1/ / / \
--header 'Content-Type: application/json' \
--header 'Accept:application/json'
```

network-device

id

wireless

wireless-info

controller

details

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Diagram Description automatically generated

#### NEW QUESTION 27

- (Exam Topic 2)

Why is refactoring done during test-driven development?

- A. to enable larger objects and longer methods
- B. to improve maintainability and readability
- C. to ensure that the previous uses of the objects are explained
- D. to ensure the duplication of essential code

**Answer:** B

#### NEW QUESTION 28

- (Exam Topic 2)

What is a requirement when authenticating a RESTCONF API session with a router that runs Cisco IOS XE Software?

- A. No authentication is required.

- B. OAuth must be used.
- C. Basic authentication must be used.
- D. A token must be retrieved and the associated string must be embedded in the X-Auth-Token header.

**Answer: C**

**Explanation:**

<https://www.cisco.com/c/en/us/td/docs/routers/csr1000/software/restapi/restapi/RESTAPIclient.html>

**NEW QUESTION 29**

- (Exam Topic 2)

What is used in JSON to represent a Python Tuple?

- A. Object
- B. Array
- C. Dict
- D. Collection

**Answer: B**

**NEW QUESTION 33**

- (Exam Topic 2)

Refer to the exhibit.

```

module ietf-ip {
  namespace "urn:ietf:params:xml:ns:yang:ietf-ip";
  prefix ip;
  import ietf-interfaces {
    prefix if;
  }
  augment "/if:interfaces/if:interface" {
    container ipv4 {
      leaf enabled {
        type boolean;
        default true;
      }
      list address {
        key "ip";
        leaf ip {
          type inet:ipv4-address-no-zone;
        }
        choice subnet {
          mandatory true;
          leaf prefix-length {
            type uint8 {
              range "0..32";
            }
          }
          leaf netmask {
            type yang:dotted-quad;
          }
        }
      }
    }
  }
}

module ietf-interfaces {
  namespace "urn:ietf:params:xml:ns:yang:ietf-interfaces";
  prefix if;
  typedef interface-ref {
    type leafref {
      path "/if:interfaces/if:interface/if:name";
    }
  }
  container interfaces {
    list interface {
      key "name";
      leaf name {
        type string;
      }
      leaf description {
        type string;
      }
      leaf type {
        type identityref {
          base interface-type;
        }
        mandatory true;
      }
      leaf enabled {
        type boolean;
        default "true";
      }
    }
  }
}

```

Which JSON snippet configures a new interface according to YANG model?

A)

```

{
  "ietf-interfaces:interface": {
    "name": "Loopback100",
    "enabled": true,
    "ietf-ip:ipv4": {
      "address": [
        {
          "ip": "10.255.254.1",
          "netmask": "255.255.255.0"
        }
      ]
    }
  }
}

```

B)

```

{
  "ietf-interfaces": {
    "interface": {
      "name": "Loopback100",
      "enabled": true,
      "ietf-ip": {
        "ipv4": {
          "address": [
            {
              "ip": "10.255.254.1",
              "netmask": "255.255.255.0"
            }
          ]
        }
      }
    }
  }
}

```

C)

```
“ interface” {
  “name”: “Loopback100”,
  “enabled”: true,
  “ipv4”: {
    “address”: [
      {
        “ip”: “10.255.254.1”,
        “netmask”: “255.255.255.0”
      } ] }
}
```

D)

```
“ietf-interfaces:interface”: {
  “name”: “Loopback100”,
  “enabled”: true,
  “ietf-ip:ipv4:address”: [
    {
      “ip”: “10.255.254.1”,
      “netmask”: “255.255.255.0”
    } ]
}
```

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

**Answer: B**

### NEW QUESTION 37

- (Exam Topic 2)

What does a load balancer distribute in a network environment?

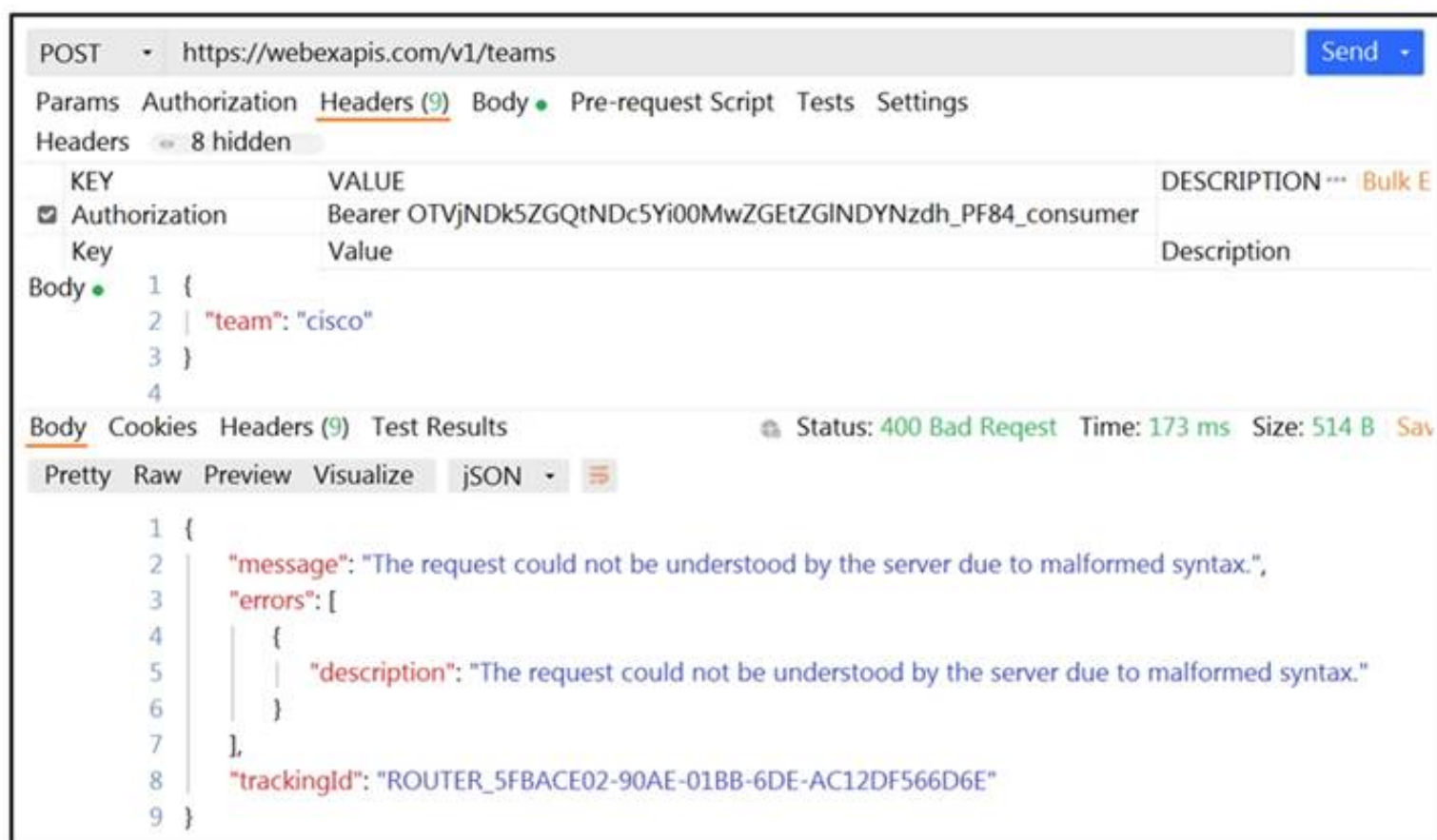
- A. outgoing connections to the network
- B. incoming traffic across multiple servers
- C. different TCP connections to the routers
- D. traffic in the network by leveraging the switch architecture

**Answer: B**

### NEW QUESTION 39

- (Exam Topic 2)

Refer to the exhibit.



POST - <https://webexapis.com/v1/teams> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings

Headers 8 hidden

KEY	VALUE	DESCRIPTION
Authorization	Bearer OTVjNDk5ZGQtNDc5Yi00MwZGEtZGINDYNzdh_PF84_consumer	

Body 1 {  
2 | "team": "cisco"  
3 }  
4

Body Cookies Headers (9) Test Results Status: 400 Bad Request Time: 173 ms Size: 514 B Sav

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "The request could not be understood by the server due to malformed syntax.",
3   "errors": [
4     {
5       "description": "The request could not be understood by the server due to malformed syntax."
6     }
7   ],
8   "trackingId": "ROUTER_5FBACE02-90AE-01BB-6DE-AC12DF566D6E"
9 }
```

A developer wants to create a room named cisco through Webex API. The developer prepares the request by putting an API token inside the authorization header; however, the given HTTP call returns error code 400. How must the call parameters be changed to ensure a valid response?

- A. Replace the team body parameter with the name body parameter.
- B. Replace cisco with a valid name for a team.
- C. Change the token in the header with the authorization token.
- D. Change the HTTP method of the call to PUT.

**Answer: A**



## NEW QUESTION 42

- (Exam Topic 1)

Refer to the exhibit.

For CLI commands that support XML, the `clid()` method returns JSON output. An exception is thrown when XML is not used. Executes CLI commands. Takes CLI command string and returns show command output in a JSON form.

“

Note: The “clid” API can be useful when searching the output of show commands using JSON tools as shown in the example.

### PYTHON

```
Example:
>>> import json
>>> from cli import *
>>> jversion = json.loads(clid("show
version"))
>>> jversion['bios_ver_str']
'08.06'
```

#### Arguments:

- `cmd`: Single CLI command or a batch of CLI commands. Delimiter for multiple CLI commands is a space followed by a semicolon. Configuration commands must be in a fully qualified form.

#### Returns:

- string: JSON-formatted output of show commands.

```
>>> from cli import *
>>> import json

>>>
>>> cli('configure terminal ; interface loopback 5 ; no shut')
''
>>> intflist=json.loads(clid('show interface brief'))
>>> i=0
>>> while i < len (intflist['TABLE_interface']['ROW_interface']):
...     intf=intflist['TABLE_interface']['ROW_interface'][i]
...     i=i+1
...     if intf['state'] == 'up':
...         print intf['interface']
```

The python interpreter and the Cisco python SDK are available by default in the Cisco NX-OS software. The SDK documentation shows how the `cild()` API can be used when working with working with JSON and XML. What are two effect of running the script? (Choose two.)

- A. configure interlace loopback 5
- B. issue shutdown on interface loopback 5
- C. show only the interfaces In the up status
- D. show only the interfaces in admin shut status
- E. show details for the TABLE interface

Answer: AC

#### Explanation:

Reference:

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b\\_Cisco\\_](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_)

## NEW QUESTION 46

- (Exam Topic 1)

Fill in the blanks to complete the statement.

Given a username of “devnet” And a password “Cisco123”, applications must create a base64 encoding of the string “\_\_\_\_\_” when sanding HTTP requests to an API that uses \_\_\_\_\_ authentication.

Given a username of “devnet” and a password of “cisco123”, applications must create a base64 encoding of the string “\_\_\_\_\_” when sending HTTP requests to an API that uses \_\_\_\_\_ authentication.

A. Mastered



B. Not Mastered

**Answer:** A

**Explanation:**

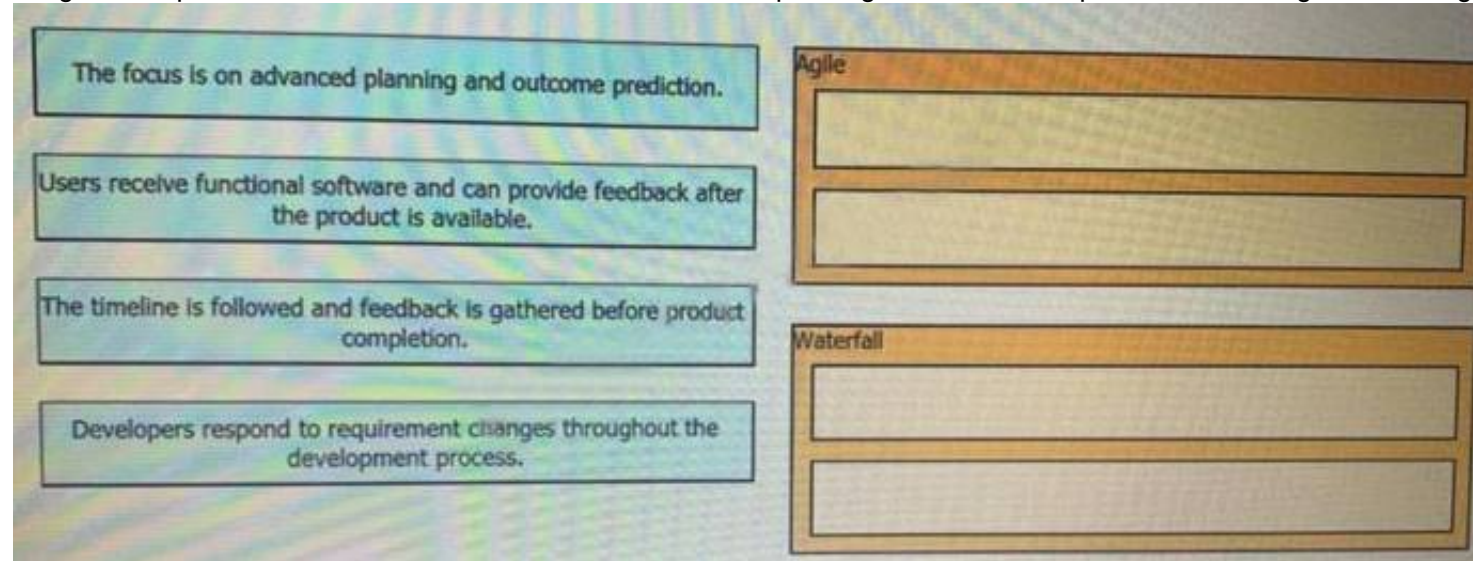
Solution as below

Given a username of "devnet" and a password of "cisco123", applications must create a base64 encoding of the string "devnet:cisco123" when sending HTTP requests to an API that uses Basic authentication.

#### NEW QUESTION 51

- (Exam Topic 1)

Drag and drop the characteristics from the left onto the corresponding software development methodologies on the right?

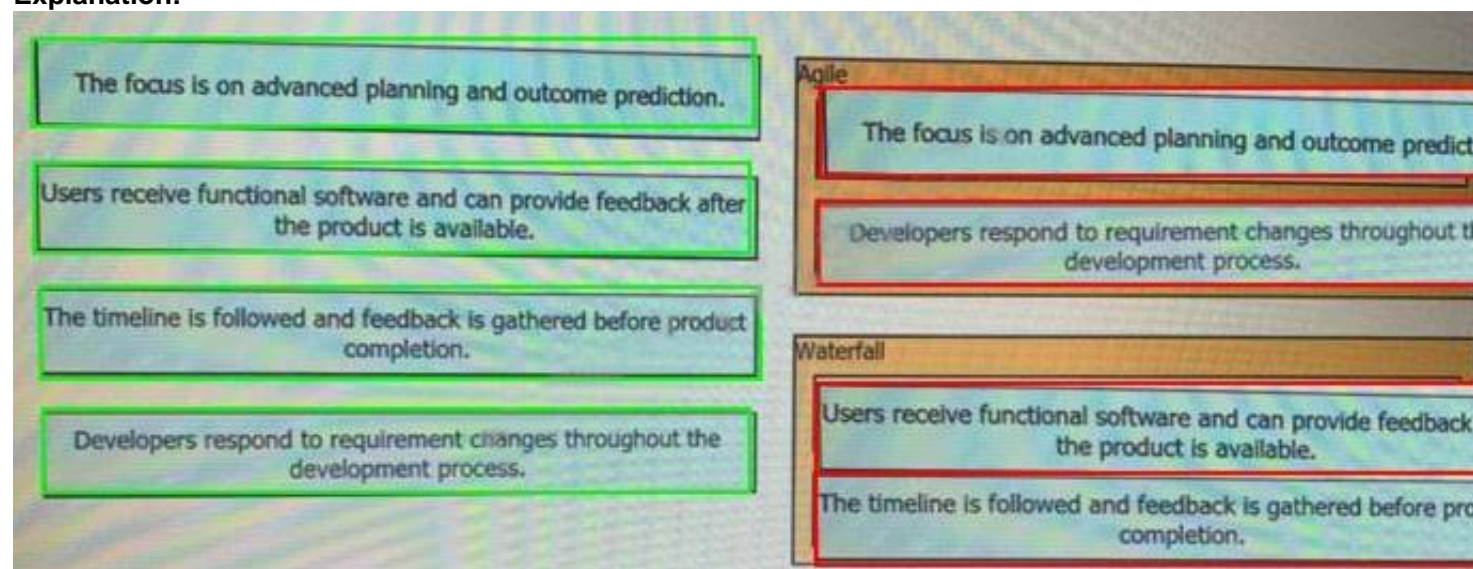


A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**



#### NEW QUESTION 56

- (Exam Topic 1)

Which device is a system that monitors and controls incoming and outgoing network traffic based on predetermined security rules?

- A. Switch
- B. Router
- C. Firewall
- D. Load balancer

**Answer:** C

#### NEW QUESTION 60

- (Exam Topic 1)

A small company has 5 servers and 50 clients. What are two reasons an engineer should split this network into separate client and server subnets? (Choose two)

- A. Internet access to the servers will be denied on the router.
- B. A router will limit the traffic types between the clients and servers.
- C. Subnets will split domains to limit failures.
- D. A router will bridge the traffic between clients and servers.
- E. Subnets provide more IP address space for clients and servers.

**Answer:** AC

#### NEW QUESTION 62

- (Exam Topic 1)

When using the Bash shell, how is the output of the devnet command saved to a file named "output.txt"?

- A. devnet & output.txt
- B. devnet > output.txt
- C. devnet < output.txt
- D. devnet | output.txt

**Answer:** B

#### Explanation:

Reference: <https://askubuntu.com/questions/420981/how-do-i-save-terminal-output-to-a-file>

#### NEW QUESTION 64

- (Exam Topic 1)

Drag and drop the HTTP methods from the left onto their generally accepted corresponding create, read, update, and delete operations on the right.

DELETE	Create
GET	Read
PATCH	Update
POST	Update
PUT	Delete

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

1 – D, 2 – B, 3 – C, 4 – E, 5 – A

Reference:

<https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/application-policy-infrastructure-controller-e>  
OR

Answer : Post  
Get Put Delete

#### NEW QUESTION 69

- (Exam Topic 1)

A developer is writing an application that a REST API and the application requires a valid from the API which element of the response is used in the conditional check?

- A. URL
- B. Status code
- C. Link
- D. Body
- E. Headers

**Answer:** B

#### NEW QUESTION 73

- (Exam Topic 1)

Refer to the exhibit.

```
docker run -p 3000:5000 f877cbf2ff33
```

A process on the host wants to access the service running inside this Docker container. Which port is used to make a connection?

- A. only outbound connections between 3000 and 5000 are possible
- B. port 3000
- C. any port between 3000 and 5000
- D. port 5000

**Answer:** B

#### NEW QUESTION 74

- (Exam Topic 1)

Which response status code is used by a RESTful interface to indicate successful execution of a request?

- A. 200
- B. 404
- C. 405
- D. 500

**Answer:** A

#### NEW QUESTION 76

- (Exam Topic 1)

How does requesting a synchronous API operation differ from requesting an asynchronous API operation?

- A. clients poll for the status of the execution of operations
- B. clients subscribe to a webhook for operation results
- C. clients can access the results immediately
- D. clients receive responses with a task id for further processing

**Answer:** C

#### NEW QUESTION 79

- (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 84

- (Exam Topic 1)

Users cannot access a webserver and after the traffic is captured, the capture too\* shows an ICMP packet that reports "communication administratively prohibited"  
What Is the cause of this webserver access Issue?

- A. An access list along the path is blocking the traffic
- B. The traffic is not allowed to be translated with NAT and dropped.
- C. Users must authenticate on the webserver to access It
- D. A router along the path is overloaded and thus dropping traffic

**Answer:** A

#### NEW QUESTION 89

- (Exam Topic 1)

Refer to the exhibit.

```
#!/bin/bash
read ndir
while [ -d "$ndir" ]
do
  cd $ndir
done
mkdir $ndir
```

What is the action of the Bash script that is shown?

- A. The script waits until input is entered
- B. If the directory exists, the script goes into it until there is no directory with the same name, then it creates a new directory.
- C. The script goes into the directory called "\$ndir" and makes a new directory called "\$ndir"
- D. The script waits until input is entered, then it goes into the directory entered and creates a new directory with the same name.
- E. For all directories in the current folder
- F. The script goes into directory and makes a new directory.

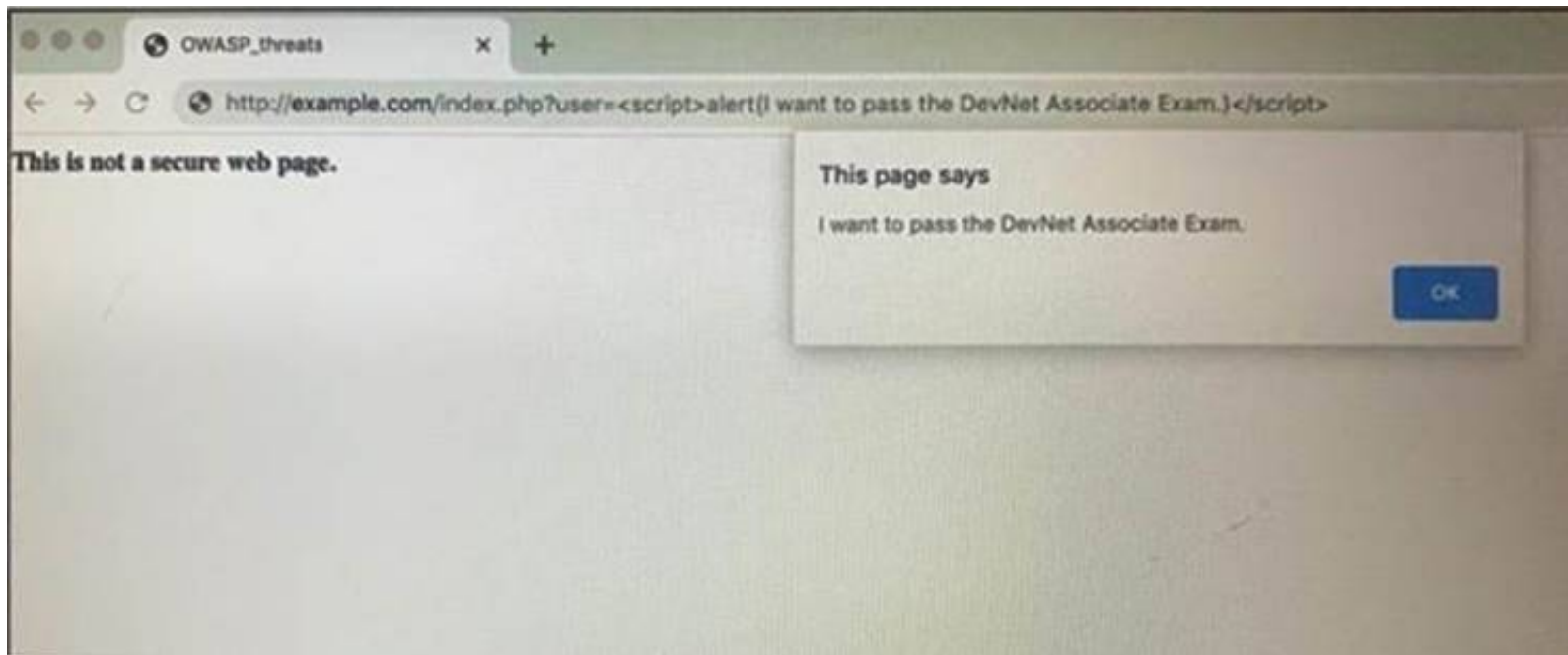
**Answer:** A

#### NEW QUESTION 90

- (Exam Topic 1)

Refer to the exhibit.





Which OWASP threat does this example demonstrate?

- A. broken access control
- B. SQL injection
- C. man-in-the-middle
- D. cross-site scripting

**Answer:** D

### NEW QUESTION 93

- (Exam Topic 1)

Which type of HTTP method is used by the Meraki nad webex teams APIs to send webhook notifications?

- A. HTTP GET
- B. HTTP PUT
- C. HTTP HEAD
- D. HTTP POST

**Answer:** D

### Explanation:

Reference: <https://meraki.cisco.com/blog/tag/alerts/>

### NEW QUESTION 97

- (Exam Topic 1)

Which two statements about JSON and XML are true? (Choose two.)

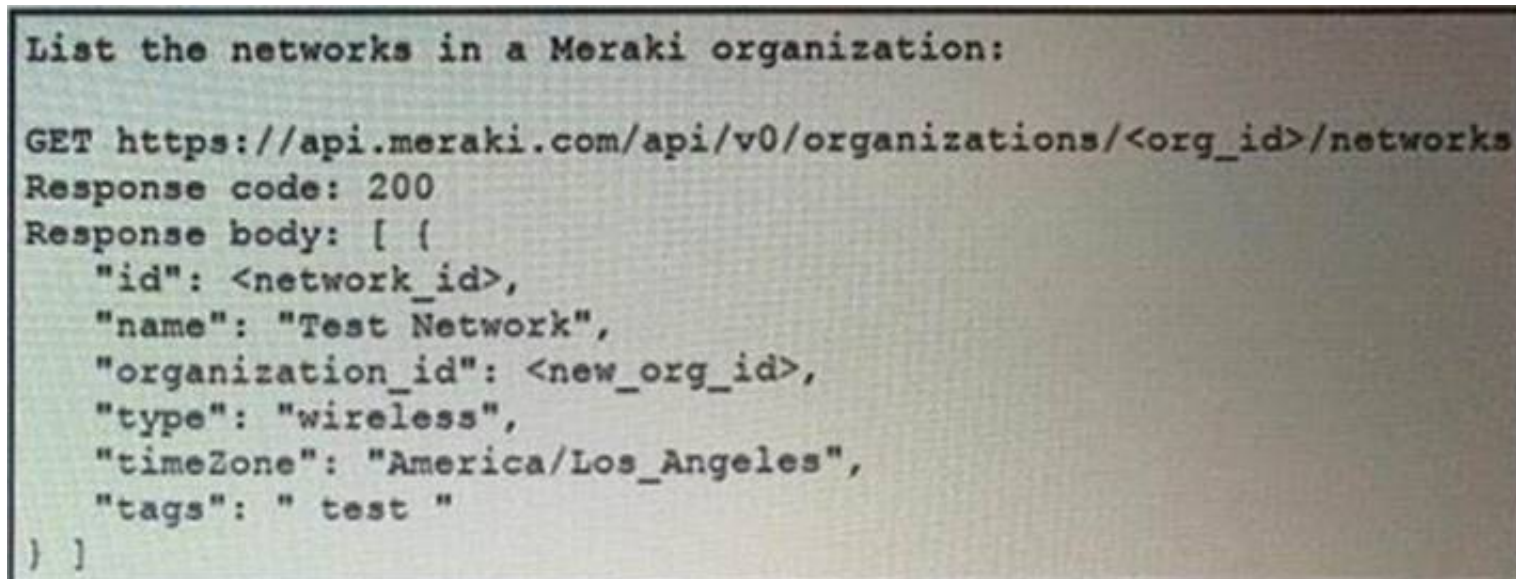
- A. JSON objects are collection of key value pair.
- B. The syntax of JSON contains tags, elements, and attributes.
- C. JSON arrays are an unordered set of key value pairs.
- D. The syntax of XML contains tags, elements, and attributes.
- E. XML objects are collections of key-value pairs.

**Answer:** AD

### NEW QUESTION 98

- (Exam Topic 1)

Refer to the exhibit.



Fill in the blanks to complete the cURL command to the list of networks in the Meraki organization with an id of 384279060

```

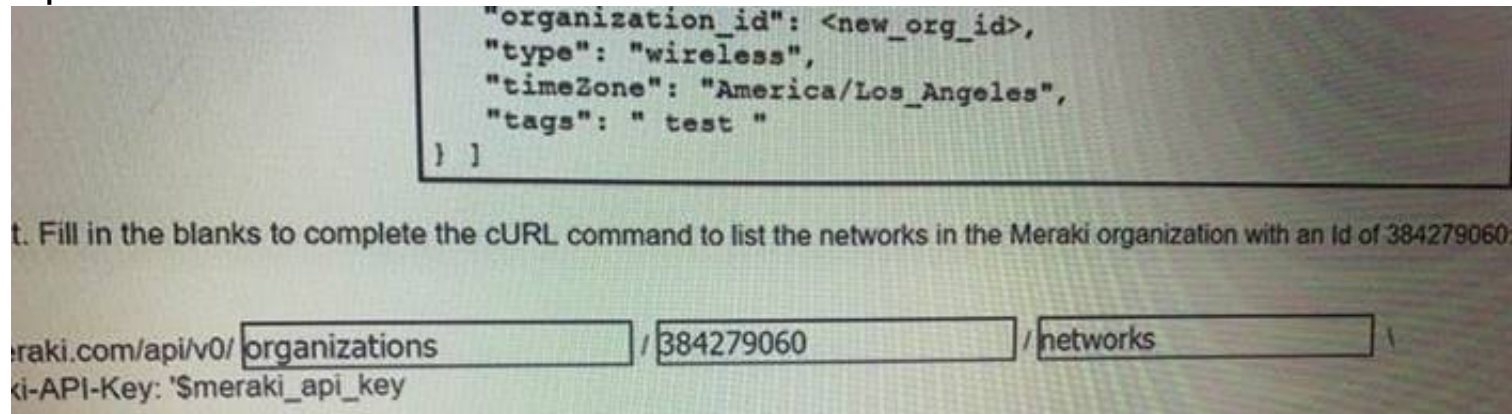
curl -X GET -L \
--url https://api.meraki.com/api/v0/[ ]/[ ]/[ ] \
-H 'X-Cisco-Meraki-API-Key: $meraki_api_key'
    
```



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



#### NEW QUESTION 100

- (Exam Topic 1)

Which two statement describe the role of an artifact repository in a CI/CD pipeline? (Choose two.)

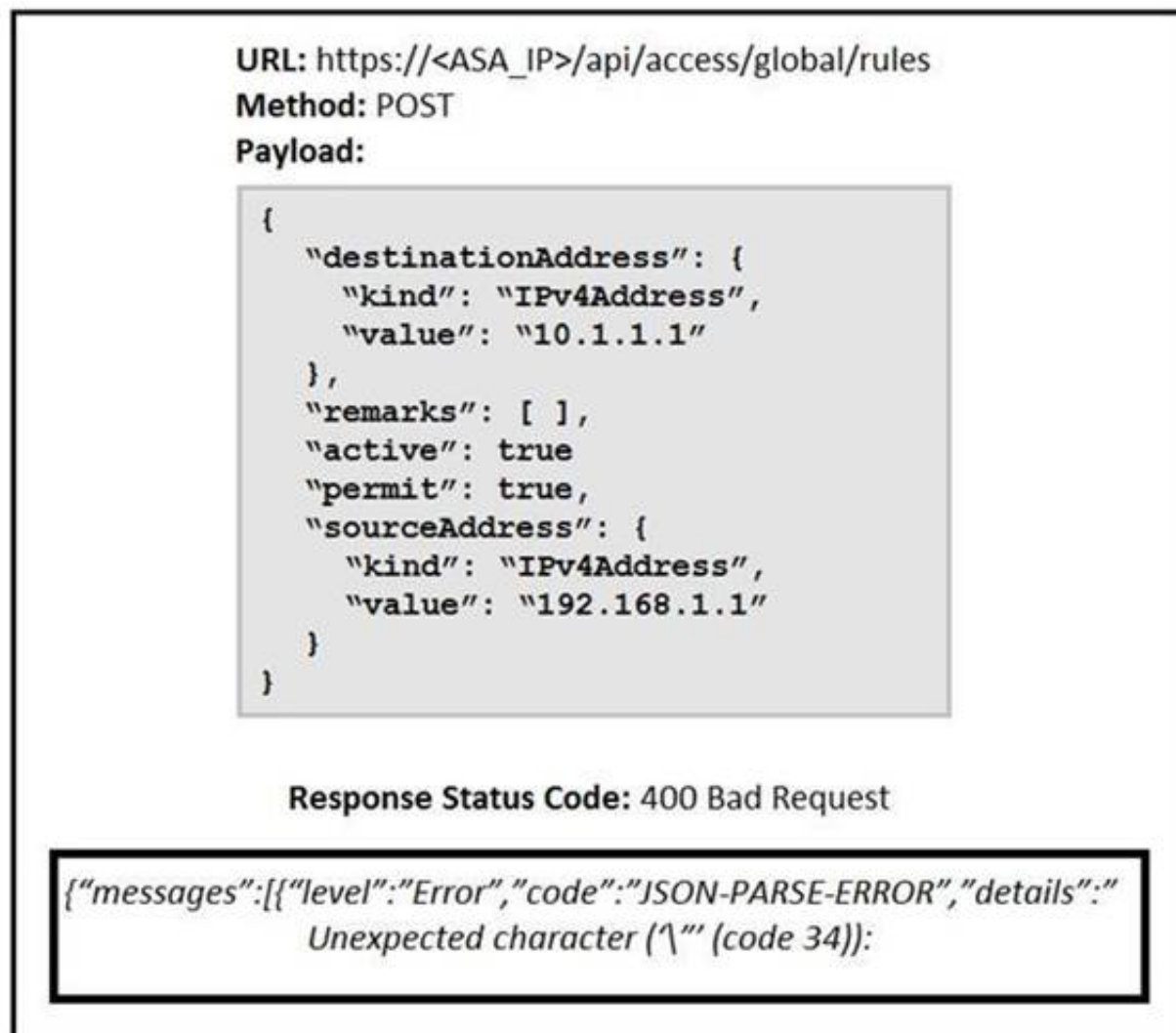
- A. An artifact repository allows to compare and merge changes in the source code of files involved in a build process.
- B. An artifact repository is needed only for CI/CD pipeline executed on a public cloud infrastructure.
- C. An artifact repository provides traceability, search, and management of binary files.
- D. An artifact repository is needed only for managing open source software.
- E. An artifact repository stores files needed and generated during the build process.

**Answer:** CE

#### NEW QUESTION 101

- (Exam Topic 1)

Refer to the exhibit.



What caused the error in this API request?

- A. The API resource does not support the POST operation
- B. The API resource does not support JSON format payloads.
- C. The submitted JSON payload includes a field that is not supported by the API resource.
- D. The submitted JSON payload has a formatting issue

**Answer:** D

#### NEW QUESTION 105

- (Exam Topic 1)

Which model-driven programmability protocol does Cisco IOS XE Software support?

- A. CORBA

- B. SSH
- C. gNMI
- D. SOAP

**Answer:** C

**Explanation:**

Reference:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b\\_1610\\_programmability\\_cg/gnmi\\_](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b_1610_programmability_cg/gnmi_)

**NEW QUESTION 107**

- (Exam Topic 1)

What is a tenet of test-driven development?

- A. write documentation for tests
- B. write tests after adding new blocks of code
- C. write and run tests before writing new code
- D. run tests after writing new code

**Answer:** C

**NEW QUESTION 112**

- (Exam Topic 1)

Fill in the blanks to complete the Bash script in which each file in a directory is renamed to its SHA256 hash?

```
TARGET_DIR=/usr/local/certs
for f in   ; do
     `openssl sha -sha256 -r < $f | cut -f1 -d' '`
done
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Check below the answer exact.

```
TARGET_DIR=/usr/local/certs
for f in `ls  $TARGET_DIR` ; do
    mv  `openssl sha -sha256 -r < $f | cut -f1 -d' '`
done
```

**NEW QUESTION 116**

- (Exam Topic 1)

An application calls a REST API and expects a result set of more than 550 records, but each time the call is made, only 25 are returned. Which feature limits the amount of data that is returned by the API?

- A. pagination
- B. payload limit
- C. rate limiting
- D. service timeouts

**Answer:** A

**NEW QUESTION 118**

- (Exam Topic 1)

Drag and drop the requests from the left into the correct order on the right to create and check the path trace between two devices using Cisco DNA center API.

GET /api/v1/flow-analysis/{flowAnalysisId}	Step 1
POST /api/v1/flow-analysis	Step 2
POST /api/system/v1/auth/token	Step 3
GET /api/v1/network-device/ and choose IP of source and destination devices	Step 4

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

1 – C, 2 – D, 3 – B, 4 - A

#### NEW QUESTION 120

- (Exam Topic 1)

When a Cisco IOS XE networking device is configured using RESTCONF, what is the default data-encoding method?

- A. XML  
B. x-form-encoding  
C. YANG  
D. YAML

Answer: A

#### NEW QUESTION 123

- (Exam Topic 1)

Which task is performed because the test-driven development approach is being used?

- A. testing existing software before developing new code  
B. refactoring code that is covered by existing tests  
C. writing code without committing any coding violations  
D. creating test scenarios based on continuous development

Answer: B

Explanation:

"The idea is that you build a test case first, before any software has been created or modified" but "testing existing software before developing new code" is the idea or goal, not the task five steps of TDD:

- Write a test
- Test fails
- Write some code
- Test passes
- Refactor

#### NEW QUESTION 127

- (Exam Topic 1)

Drag and drop the function on the left onto the type of plane that handles the function on the right.



handles transit traffic

handles signaling protocols destined to the device

handles hardware forwarding decisions

handles configuration change protocols destined to the device

handles BGP destined to the device

handles NETCONF destined to the device

Control Plane

Management Plane

Data Plane

A. Mastered  
B. Not Mastered

Answer: A

Explanation:

handles transit traffic

handles signaling protocols destined to the device

handles hardware forwarding decisions

handles configuration change protocols destined to the device

handles BGP destined to the device

handles NETCONF destined to the device

Control Plane

handles signaling protocols destined to the device

handles BGP destined to the device

Management Plane

handles configuration change protocols destined to the device

handles NETCONF destined to the device

Data Plane

handles transit traffic

handles hardware forwarding decisions

NEW QUESTION 132

- (Exam Topic 1)

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right.

SSH

HTTP

HTTP/2

HTTPS

gRPC

NETCONF

RESTCONF



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

gRPC = C, NETCONF = A, RESTCONF = B, D OR

**NEW QUESTION 134**

- (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 136**

- (Exam Topic 1)

Which two protocols are used to apply a configuration change on a Cisco IOS XE device? (Choose two)

- A. CCX
- B. RESTCONF
- C. NETCONF
- D. HSRP
- E. CDP

**Answer:** BC

**NEW QUESTION 141**

- (Exam Topic 1)

Which product provides network controller-level management features?

- A. Cisco DNA Center
- B. Cisco NX-OS
- C. Cisco UCS Manager
- D. Cisco ISE

**Answer:** A

**Explanation:**

Reference: <https://www.cisco.com/c/en/us/products/cloud-systems-management/index.html>

**NEW QUESTION 142**

- (Exam Topic 1)

Which platform is run directly using a hypervisor?

- A. bare metal systems
- B. containers
- C. virtual machines
- D. applications

**Answer:** C

**NEW QUESTION 146**

- (Exam Topic 1)

Which platform is run directly using a hypervisor?

- A. Virtual
- B. Bare metal systems
- C. Containers
- D. Applications

**Answer:** C

**NEW QUESTION 150**

- (Exam Topic 1)

Which mechanism is used to consume a RESTful API design when large amounts of data are returned?

- A. Data sets
- B. Scrolling
- C. Blobs
- D. Pagination

**Answer:** D

**Explanation:**

Reference: <https://nordicapis.com/everything-you-need-to-know-about-api-pagination/>

**NEW QUESTION 154**

- (Exam Topic 1)

What is the first development task in test-driven development?

- A. Write code that implements a desired function.
- B. Write a failing test case for a desired function.
- C. Write a passing test case for existing code.
- D. Reverse engineer the code for a desired function.

**Answer:** B

**Explanation:**

Reference:

<https://technologyconversations.com/2013/12/20/test-driven-development-tdd-example-walkthrough/>

**NEW QUESTION 156**

- (Exam Topic 1)

Which two use cases are supported by Meraki APIs? (Choose two.)

- A. Retrieve live streams from a Meraki Camera.
- B. Build a custom Captive Portal for Mobile Apps.
- C. Configure network devices via the Dashboard API.
- D. Build location-aware apps from Wi-Fi and LoRaWAN devices.
- E. Deploy applications onto the devices.

**Answer:** BC

**NEW QUESTION 158**

- (Exam Topic 1)

Refer to the exhibit.

```
$ pyang -f tree Cisco-IOS-XE-native.yang
module: Cisco-IOS-XE-native
  +--rw native
    +--rw logging
      +--rw monitor|
        +--rw severity?  logging-level-type

$ curl --insecure -v -X PATCH \
  "https://ios-xe-mgmt-latest.cisco.com:9443/restconf/data/Cisco-IOS-XE-native:native" \
  -H 'Authorization: Basic ZGV2ZWxvcGVyOkMxc2NvMTIzNDU=' -H 'Accept: application/yang-data+json' \
  -H 'Content-Type: application/yang-data+json' \
  -d '{ "Cisco-IOS-XE-native:native" : { "logging" : { "monitor" : { "severity" : "alerts" }} } }'
> ...
< ...
< HTTP/1.1 204 No Content
```

The definition of the YANG module and a RESTCONF query sent to a Cisco Ioc XE device is shown. Which statement is correct if the RESTCONF interface responds with a 204 status code?

- A. The query failed at retrieving the logging seventy level.
- B. The query failed to set the logging seventy level due to an invalid path.
- C. The query retrieved the logging seventy level.
- D. The query updated the logging seventy level or created it if not present on the device.

**Answer:** D

**Explanation:**

Reference:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1611/b\\_1611\\_programmability\\_cg/restco](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1611/b_1611_programmability_cg/restco)

**NEW QUESTION 159**

- (Exam Topic 3)

Drag and drop the code from the bottom onto the box where the code is missing to authenticate with the Cisco DNA Center REST API by using basic authentication. Then generate a token for later use. Not all options are used.

```
import requests
from requests.auth import HTTPBasicAuth

BASE_URL = 'https://sandboxdnac2.cisco.com'
AUTH_URL = '/dna/system/api/v1/' + ' '
USERNAME = 'admin'
PASSWORD = 'qwer1234!'

response = requests. (BASE_URL + AUTH_URL,
    auth=HTTPBasicAuth( , ))
token = response.json()['Token']
print(token)
```

auth/basic	/auth/token	post	get
USERNAME	Token	PASSWORD	

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

```
import requests
from requests.auth import HTTPBasicAuth

BASE_URL = 'https://sandboxdnac2.cisco.com'
AUTH_URL = '/dna/system/api/v1/' + '/auth/token'
USERNAME = 'admin'
PASSWORD = 'qwer1234!'

response = requests. post (BASE_URL + AUTH_URL,
    auth=HTTPBasicAuth( USERNAME , PASSWORD ))
token = response.json()['Token']
print(token)
```

auth/basic	/auth/token	post	get
USERNAME	Token	PASSWORD	

#### NEW QUESTION 162

- (Exam Topic 3)

What is a characteristic of Waterfall compared to Agile software development method?

- A. Waterfall focuses on continuous improvement, and Agile focuses on the design phase.  
 B. Waterfall separates the project development lifecycle into sprints, and Agile does not use cycles.  
 C. Waterfall specifies requirements before development begins, and Agile responds flexibly to changes in requirements.  
 D. Waterfall uses reviews with step by step approach, and Agile uses a serially phased approach.

Answer: C

#### NEW QUESTION 164

- (Exam Topic 3)

A file in a local Git repository has been updated and issued the git add . command. The git diff command has been run to compare the changes to the previous commit, but nothing shows. Which action identifies the problem?

- A. Run the git add . command again in the correct subdirectory to ensure changes added to the staging area.



- B. Run the git commit command before the differences are compared to receive the end state of the code.
- C. Run the git status command to see the differences between current and previous code review stages.
- D. Run the git diff --staged command to compare the code added to the staging area.

Answer: D

NEW QUESTION 166

- (Exam Topic 3)

```
user@host1:~/tmp$ cat Dockerfile
# Dockerfile to install traceroute
FROM ubuntu
MAINTAINER User One (userone@cisco.com)
RUN apt-get update && apt-get install traceroute
```

Refer to the exhibit. Drag and drop the Dockerfile contents from the left onto the functions on the right that create a container image to run traceroute to track network path to specific targets. Not all options are used.

document author	FROM ubuntu
command to execute	MAINTAINER User One (userone@cisco.com)
Initializes a new build stage	RUN apt-get update && apt-get install traceroute
copies new files or directories	
sets the userid	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

document author	Initializes a new build stage
command to execute	document author
Initializes a new build stage	command to execute
copies new files or directories	
sets the userid	

NEW QUESTION 171

- (Exam Topic 3)

What is a capability of the AXL API?

- A. It signs a user in to a phone that is configured for extension mobility.
- B. It pulls logs for the Cisco Tomcat service.
- C. It authenticates users who exist in Cisco Unified Communications Manager.
- D. It provides support for HTTP and HTTPS communications.



**Answer:** C

**NEW QUESTION 172**

- (Exam Topic 3)

A developer has experienced security issues with a previously developed application. The API offered by that application is open and without any constraints. During a recent attack, the application was overloaded with API requests. To address this issue, an API constraint is implemented to protect the application from future attacks or any sudden throttling. Which API constraint must the application developer implement in this situation?

- A. pagination
- B. rate limiting
- C. filtering
- D. payload limiting

**Answer:** B

**NEW QUESTION 173**

- (Exam Topic 3)

Which technology is responsible for resolving a host name to an IP address?

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

**Answer:** A

**NEW QUESTION 177**

- (Exam Topic 3)

What is the purpose of running tests before writing code in test-driven development?

- A. to find unexpected failures in the tests
- B. to demonstrate that the tests fail for expected reasons
- C. to ensure that the tests pass
- D. to provide proof of the work carried out

**Answer:** D

**NEW QUESTION 178**

- (Exam Topic 3)

```
$ find /home/user/backup -mtime +30 -type f -print
$ find /home/user/backup -mtime +30 -type f -delete
```

Refer to the exhibit. An engineer is managing the network of an enterprise. The network is using a distributed deployment model. The enterprise uses database to store logs. The current policy requires logs to be stored if changes are made to the infrastructure in any of the devices on the data centers. Which workflow is being automated by the Bash script?

- A. returning backup files that are older than 30 days
- B. deleting backup files that are older than 30 days
- C. configuring the directory to delete files automatically
- D. automating deletion of all backup files every 30 days

**Answer:** B

**NEW QUESTION 183**

- (Exam Topic 3)

During which step of the CI/CD pipeline for infrastructure automation is code from multiple developers combined to compile and test different components?

- A. integration
- B. deployment
- C. development
- D. testing

**Answer:** A

**NEW QUESTION 186**

- (Exam Topic 3)

What is the function of an Ethernet switch in a networking environment?

- A. to switch a frame from one port to another port based on IP address
- B. to switch a frame from one port to another port based on MAC address
- C. to provide IP addressing to connected hosts
- D. to block unwanted traffic

**Answer:** B

#### NEW QUESTION 187

- (Exam Topic 3)

```
import requests, json
url = https://sandboxdnac.cisco.com:443/dna/intent/api/v1/3daa70bdcd5b
headers = {
    'x-auth-token': 'eyJhbGc ... yJbN8',
    'Content-Type': 'application/json',
}
payload = {
    "settings": {
        "dhcpServer": ["172.30.200.5"],
        "dnsServer": {
            "domainName": "devnet.local",
            "primaryIpAddress": "172.30.200.6",
            "secondaryIpAddress": "172.30.200.7"},
        "syslogServer": {"ipAddresses": ["10.255.0.1"], "configureDnacIP": True}
    }
}
response = requests.request('POST', url, headers=headers, data=payload)
print(response.status_code)
```

Refer to the exhibit. A developer writes a script to create a new network by using the Cisco DNA Center API. After running the script for the first time, the developer observes that HTTP code 404 is printed to the console. Which action resolves the problem?

- A. The x-auth-token value must be changed to a valid token.
- B. The API URL must be changed with a valid URL.
- C. The requested payload must be fixed to include missing parts.
- D. Internal errors on the code of API server must be fixed.

**Answer: B**

#### NEW QUESTION 190

- (Exam Topic 3)

Which IP service synchronizes the time across devices?

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

**Answer: B**

#### NEW QUESTION 193

- (Exam Topic 3)

Which network constraint causes the performance of the application to decrease as the number of users accessing the application increases?

- A. latency
- B. loss
- C. bandwidth
- D. jitter

**Answer: C**

#### NEW QUESTION 197

- (Exam Topic 3)

### CISCO SECURITY APIS

Introduction

- API Workflow
  - 1.) Find all events where Malwar...
  - 2.) Find Endpoint Details for Rem...
  - 3.) Nuke the Endpoint to Prevent...
  - 4.) Find samples in Threat Grid
  - 5.) Get all sample domains to an...
  - 6.) Check all domains against Inv...
  - 7.) For suspect domains get mor...
  - 8.) Enforce on bad Domains in U...
  - 9.) Research other Ransomware ...
  - Generate Authentication Token ...
  - 10.) Add custom intelligence Fee...
- NGFW
  - Generate Authentication Token
  - Access Policies
  - Access Rules
  - Access Rule Details
  - New Access Rule in Policy
  - New Bulk Access Rule in Policy

## Cisco Security APIs

The main goal of this collection to help the developer understand the various API capabilities of Cisco NG Malware Protection, Threat Grid, , ISE and Umbrella. It will cover useful API features for each of the prod properly use them. Simple workflow is also included in the collection to *Collect* all the characteristics/sign the possible attack using AMP. *Validate* the collected intelligence with Threat Grid and Umbrella. *Deploy* to the NGFW, Umbrella and ISE to protect and contain the threat.

### API Workflow

**GET 1.) Find all events where Malware Executed**

`https://amp.dcloud.cisco.com/v1/events?connector_guid[]=&event_type[]=1107296272`

Get a listing of all the events for a specific computer when the quarantine failed

PARAMS

Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to construct a Python script that calls a REST API request. Not all options are used.

```

import requests

[ ] = "https://fmc-hostname/api/fmc_tid/v1/domain//tid/source"

payload = {
    "name": "Threat Grid Ransomware DNS",
    "delivery": "url",
    "uri": "https://panacea.threatgrid.com/api/v3/feeds"+
    "/ransomware-dns 2017-12-08.stix?api_key=",
    "refresh": 1440,
    "version": "1.0.0",
    "params": {
        "selfSignedServerCertificate": "true",
        "hostnameVerifier": "allow_all"
    },
    "property": {
        "ttl": 90,
        "publish": true,
        "action": "monitor"
    }
}

headers = {
    'X-auth-access-token': 'access_token', ' [ ] ': 'application/json'
}

response = requests. [ ] ("POST", url,
    headers=headers, data = [ ] )
print(response.text.encode('utf8'))

```

url

Encoding

base\_url

Content-Type

post

request

payload

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:



```
import requests

url = "https://fmc-hostname/api/fmc_tid/v1/domain//tid/source"

payload = {
    "name": "Threat Grid Ransomware DNS",
    "delivery": "url",
    "uri": "https://panacea.threatgrid.com/api/v3/feeds"+
    "/ransomware-dns 2017-12-08.stix?api_key=",
    "refresh": 1440,
    "version": "1.0.0",
    "params": {
        "selfSignedServerCertificate": "true",
        "hostnameVerifier": "allow_all"
    },
    "property": {
        "ttl": 90,
        "publish": true,
        "action": "monitor"
    }
}

headers = {
    'X-auth-access-token': 'access_token', 'Content-Type': 'application/json'
}

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

url	Encoding	base_url	Content-Type	post
request	payload			

#### NEW QUESTION 199

- (Exam Topic 3)

```
--- functions.py 2020-09-26 14:26:25.000000000 -0600
--- new.py 2020-09-26 14:26:10.000000000 -0600
@@ -21,7 +21,7 @@
def print_devices_info(devices):
    # Print id, hostname and management IP
    for item in devices:
-        print(item['id'], item['hostname'], item['managementIpAddress'])
-        print(item['id'], item['hostname'])

    # Get Authentication token
    def get_dnac_jwt_token():
@@ -66,9 +66,15 @@
    response = get_devices_list(headers, {})
    print_devices_info(response)

-    # print devices list filtered by hostname
-    print('\nPrinting device list filtered by hostname ...')
-    query_string_params = {'hostname': 'CSR1Kv-01.devnet.local'}
-    response = get_devices_list(headers, query_string_params)
-    print_devices_info(response)
-
-    # print devices list filtered by platform Id
-    print('\nPrinting device list filtered by platform id...')
-    query_string_params = {'platformId': 'C9500-40X'}
-    query_string_params = {'platformId': 'AIR-AP1141N-A-K9'}
-    response = get_devices_list(headers, query_string_params)
-    print_devices_info(response)
```

Refer to the exhibit. An engineer is comparing two files by using the unified diff format. Which code snippet belongs to the new.py file?

- A. 77 query\_string\_params = {'platformId': 'AIR-AP1141N-A-K9'}
- B. 21 print(item['id'], item['hostname'])
- C. 24 print(item['id'], item['hostname'], item['managementIpAddress'])
- D. 66 # print devices list filtered by hostname  
 67 print('\nPrinting device list filtered by hostname ...')  
 68 query\_string\_params = {'hostname': 'CSR1Kv-01.devnet.local'}  
 69 response = get\_devices\_list(headers, query\_string\_params)  
 70 print\_devices\_info(response)

**Answer:** A

#### NEW QUESTION 201

- (Exam Topic 3)

Which OWASP threat takes advantage of a web application that the user has already authenticated to execute an attack?

- A. phishing
- B. DoS
- C. brute force attack
- D. CSRF

**Answer:** D

#### Explanation:

Cross-Site Request Forgery (CSRF) is an attack that forces an end user to execute unwanted actions on a web application in which they're currently authenticated.

<https://owasp.org/www-community/attacks/csrf>

#### NEW QUESTION 205

- (Exam Topic 3)

Which solution reduces costs from MPLS, improves application performance, and simplifies operations?

- A. Cisco NSO
- B. Cisco SD-WAN
- C. Cisco ACI
- D. Cisco DNA Center

**Answer:** B

#### NEW QUESTION 210

- (Exam Topic 3)

```
1  - hosts: nxos_rtr
2    gather_facts: false
3    tasks:
4      - nxos_hsrp:
5          group: "{{ item.group }}"
6          vip: "{{ item.vip }}"
7          priority: 115
8          interface: "{{ item.interface }}"
9          preempt: enabled
10         auth_type: md5
11         auth_string: "s3cuR3"
12         version: 2
13         host: "{{ hostvars['rtr-1a']['ansible_ssh_host'] }}"
14     with_items:
15         - "{{ hsrp_groups }}"
16     delegate_to: "{{ hostvars['srv-1a']['ansible_ssh_host'] }}"
```

Refer to the exhibit. An engineer runs a network that consists of Cisco Nexus devices. The network is distributed between data centers in different locations. The switches are configured using standalone connections and a single point of failure. Which process is being automated by the Ansible playbook?

- A. enabling HSRP on the nxos\_rtr inventory host
- B. enabling HSRP on the rtr-1a inventory host
- C. executing HSRP configuration from the Ansible controller node
- D. executing HSRP configuration from the srv-1a inventory host

**Answer:** B

#### NEW QUESTION 214

- (Exam Topic 3)

Drag and drop the code snippets from the bottom onto the blanks in the code to complete the happy path scenario. Not all options are used.

```
import member as m
import pytest
class Team:
    def __init__(self, name):
        self.name = name
        self.members = []
    def add_member(self, member):
        if member:
            if member not in self.members:
                
                return True
            else:
                
        else:
            

@pytest.fixture
def team():
    team = Team('Reds')
    yield team
    del team
@pytest.fixture
def member():
    member = m.Member('Chris George')
    yield member
    del member
@pytest.mark.usefixtures('team', 'member')
class TestHappyPathAddMemberToTeam:
    def test_add_member_to_team(self, team, member):
        assert  is True
```

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

```
import member as m
import pytest
class Team:
    def __init__(self, name):
        self.name = name
        self.members = []
    def add_member(self, member):
        if member:
            if member not in self.members:
                
                return True
            else:
                
        else:
            

@pytest.fixture
def team():
    team = Team('Reds')
    yield team
    del team
@pytest.fixture
def member():
    member = m.Member('Chris George')
    yield member
    del member
@pytest.mark.usefixtures('team', 'member')
class TestHappyPathAddMemberToTeam:
    def test_add_member_to_team(self, team, member):
        assert  is True
```

#### NEW QUESTION 217

- (Exam Topic 3)

Refer to the exhibit.



```
import requests

base url = f"https://webexapis.com/v1/people"

headers = {
    "Accept": "application/json"
}

person email = 'customer@company.com'
url = f"{base url}?email={person email}"

response = requests.request("GET", url, headers=headers)

if response.status code == 200 :
    print(f"OK - Added {person email}")
else:
    print(f"ERROR CODE {response.status code}")
```

A collaboration engineer has developed a script to automate the gathering of information by providing the email address of the individual. When the engineer tests the script, a 401 error is received. Which command fixes the script?

- A. Add "Authorization": "Bearer <WEBEX\_TOKEN>" to the headers
- B. Add "Authentication": "Basic <WEBEX\_TOKEN>" in the base\_url after "https://".
- C. Add "<Authorization>:<password>@" in the base\_url after "https://".
- D. Add "Authentication": "Bearer <WEBEX\_TOKEN>" to the headers

**Answer: A**

#### NEW QUESTION 219

- (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 224

- (Exam Topic 3)

### Object Lookup

Use the `MoDirectory.lookupByDn` to look up an object within the MIT object tree by its distinguished name (DN). This example looks for an object called 'uni':

```
uniMo = moDir.lookupByDn('uni')
```

A successful lookup operation returns a reference to the object that has the specified DN.

You can also look up an object by class. This example returns a list of all objects of the class 'polUni':

```
uniMo = moDir.lookupByClass('polUni')
```

You can add a filter to a lookup to find specific objects. This example returns an object of class 'fvTenant' whose name is 'Tenant1':

```
tenant1Mo = moDir.lookupByClass("fvTenant", propFilter='and(eq(fvTenant.name, "Tenant1"))')
```

Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to add a subnet to each bridge domain in the Ten1 tenant. Not all options are used.

```

from cobra.model import fv
from cobra.mit.request import ClassQuery, DnQuery
import cobra.mit.access
import cobra.mit.session

tenname = "Ten1"
ls = cobra.mit.session.LoginSession(
    'https://10.100.1.200', "admin", "Lab123!3")

aci = cobra.mit.access.ModDirectory(ls)
aci.login()
c = cobra.mit.request.ConfigRequest()

qry1 =  (f'uni/tn-{tenname}')
fvTenant = aci.query(qry1)[0]

qry2 =  ("fvBD")
qry2.propFilter = f'and(wcard(fvBD.dn,"{fvTenant.dn}"))'
fvBDs = aci.query(qry2)

i=0
for fvBD in fvBDs:
    fvsubnet = cobra.model.fv.Subnet(  , ip=f'10.114.{i}.1/24')
    c.addMo(fvBD)
    aci.  (c)
    i+=1
    
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

from cobra.model import fv
from cobra.mit.request import ClassQuery, DnQuery
import cobra.mit.access
import cobra.mit.session

tenname = "Ten1"
ls = cobra.mit.session.LoginSession(
    'https://10.100.1.200', "admin", "Lab123!3")

aci = cobra.mit.access.ModDirectory(ls)
aci.login()
c = cobra.mit.request.ConfigRequest()

qry1 =  (f'uni/tn-{tenname}')
fvTenant = aci.query(qry1)[0]

qry2 =  ("fvBD")
qry2.propFilter = f'and(wcard(fvBD.dn,"{fvTenant.dn}"))'
fvBDs = aci.query(qry2)

i=0
for fvBD in fvBDs:
    fvsubnet = cobra.model.fv.Subnet(  , ip=f'10.114.{i}.1/24')
    c.addMo(fvBD)
    aci.  (c)
    i+=1
    
```

NEW QUESTION 229

- (Exam Topic 3)

What is a benefit of a distributed version control system?

- A. encourages users to commit small places of work to the system more frequently
- B. ensures that all code meets minimum standards before being committed to the system
- C. allows users to work on the codebase even when not connected to the Internet
- D. ensures that all code is tested before being committed to the system

Answer: C

Explanation:

Reference: <https://about.gitlab.com/topics/version-control/benefits-distributed-version-control-system/>

### NEW QUESTION 230

- (Exam Topic 3)

```
#!/bin/bash
apt-get update
apt-get -y install git
cd Code/Network_Config
mkdir PRODUCTION
cd PRODUCTION
touch state.yml
vi state.yml
```

Refer to the exhibit. A network engineer executes the bash script shown. Which two things are achieved by running the script? (Choose two.)

- A. A directory called PRODUCTION is created.
- B. The engineer changes to the parent directory.
- C. A YAML file is created.
- D. A YAML file is removed.
- E. A directory called state.yml is created.

**Answer: AC**

### NEW QUESTION 233

- (Exam Topic 2)

Refer to the exhibit.

```
import requests, sys
from config import user, password

url = "http://restconf.devnet.com:9443/api/running/interfaces"
headers = 
response = requests.put(url, auth=(user, password), headers=headers,
verify=False)
print(response.text)
```

A network engineer wants to use an API to update information about device interfaces. The network devices are deployed in a Cisco DevNet Sandbox and have running interfaces. Which line of code needs to be placed in the snippet where the code is missing?

- A. {'Content-Type': 'application/yang.data+xml', 'Accept': 'application/yang.data+xml'}
- B. {'Content-Type': 'application/yang.data+yaml', 'Accept': 'application/yang.data+yaml'}
- C. {'Content-Type': 'application/restconf.data+json', 'Accept': 'application/ restconf.data+json'}
- D. {'Content-Type': 'application/yang.data+utf8', 'Accept': 'application/ restconf.data+utf8'}

**Answer: C**

### NEW QUESTION 235

- (Exam Topic 2)

Refer to the exhibit.

**API Documentation:**

Integrations are how you request permission to invoke the Webex REST API on behalf of another Webex Teams user. To do this in a secure way the API supports the OAuth 2 standard which allows third-party integrations to get a temporary access token for authenticating API calls instead of asking users for their password.

**Script:**

```
01 import requests
02
03 base_url = "https://webexapis.com/v1"
04 header = {"Key": "Value"}
05
06 url = "{}/{}/".format(base_url, "/teams")
07 print(requests.get(url, headers=header).status_code)
```

A developer creates a Python script that queries Cisco Webex. When the script is executed, a 401 code is returned. After troubleshooting, the developer discovers that the service is missing privileges. Which change to the header in line 4 of the script results in the code 200?

A)

```
header = {"Authentication": "Bearer YOUR_TOKEN"}
```

B)

```
header = {"Authentication Bearer" : "YOUR_TOKEN"}
```

C)

```
header = {"Authorization" : "Bearer YOUR_TOKEN"}
```

D)

```
header = {"Authorization Bearer" : "YOUR_TOKEN"}
```



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

Answer: C

NEW QUESTION 239

- (Exam Topic 3)

A customer's cloud services must:

Migrate services to another data center on demand. Save the operational state of the machine on demand. Support Windows and Linux GUIs.

Maximize hardware utilization.

Which type of deployment meets these requirements?

- A. bare metal
- B. container
- C. virtual machine
- D. Kubernetes

Answer: C

NEW QUESTION 244

- (Exam Topic 3)

Which Python function is used to parse a string that contains JSON data into a Python dictionary?

- A. json.dumps()
- B. json.to\_json()
- C. json.parse()
- D. json.loads()

Answer: D

Explanation:

loads() function is present in python built-in 'json' module. This function is used to parse the JSON string.

NEW QUESTION 249

- (Exam Topic 3)

Drag and drop the steps from the left into order on the right to create a common CI/CD pipeline process. Not all options are used.

Build	step 1
Commit	step 2
Deploy	step 3
Evaluate	step 4
Test	
Regress	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Build	Commit
Commit	Build
Deploy	Test
Evaluate	Deploy
Test	
Regress	

#### NEW QUESTION 250

- (Exam Topic 3)

How does edge computing analyze sensitive data in the context of privacy control?

- A. locally instead of sending the data to the cloud for analysis
- B. locally or on the cloud depending on the configuration
- C. all at once by sending the data to the cloud
- D. locally on each node, and then sends the data to the cloud

**Answer:** A

#### NEW QUESTION 253

- (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 255

- (Exam Topic 3)

An engineer must configure Cisco Nexus devices and wants to automate this workflow. The engineer will use an Ansible playbook to configure devices through Cisco NX REST API. Before the code is run, which resource must be used to verify that the REST API requests work as expected?

- A. Cisco Open NX-OS
- B. Cisco NX-OS SDK
- C. Cisco Learning Labs
- D. Cisco Code Exchange for Nexus

**Answer:** C

#### NEW QUESTION 259

- (Exam Topic 3)

What is a benefit of using model-driven programmability for infrastructure automation?

- A. connected user tracking
- B. infrastructure resource optimization
- C. multiple device control protocols
- D. device performance monitoring

**Answer:** C

#### NEW QUESTION 264

- (Exam Topic 3)

Which HTTP error code series relates to redirection?

- A. 400
- B. 500
- C. 200
- D. 300

**Answer:** D

#### Explanation:

1xx - Informational: The server has received the request and is continuing the process

2xx - Successful: The request was successful and the browser has received the expected information 3xx (Redirection): You have been redirected and the completion of the request requires further action

4xx (Client Error): The website or the page could not be reached, either the page is unavailable or the request contains bad syntax

5xx (Server Error): While the request appears to be valid, the server could not complete the request

#### NEW QUESTION 268

- (Exam Topic 3)

An engineer prepares a set of Python scripts to interact with network devices. To avoid network performance issues, the engineer wants to run them in a test environment. Which resource must be used to monitor the live execution of code in an always-available environment?

- A. packet tracer
- B. learning labs
- C. sandbox
- D. code exchange

**Answer:** C

**NEW QUESTION 273**

- (Exam Topic 3)

What are two benefits of implementing common data structures when working with APIs in remote systems? (Choose two.)

- A. ensures that developers are limited to using one data schema type
- B. prevents multivendor interoperability
- C. improves security in RESTful web services
- D. enforces standardized data structures
- E. leverages code that is easily managed and reused

**Answer:** BE

**NEW QUESTION 274**

- (Exam Topic 3)

What is a principle of a code review process?

- A. Changes are made after the code is submitted to source control.
- B. It must not prevent code from getting into production as quickly as possible.
- C. Naming standards must be consistent.
- D. A technical lead must sign off on the review.

**Answer:** D

**NEW QUESTION 275**

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