



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)

What is a capability of the NETCONF protocol?

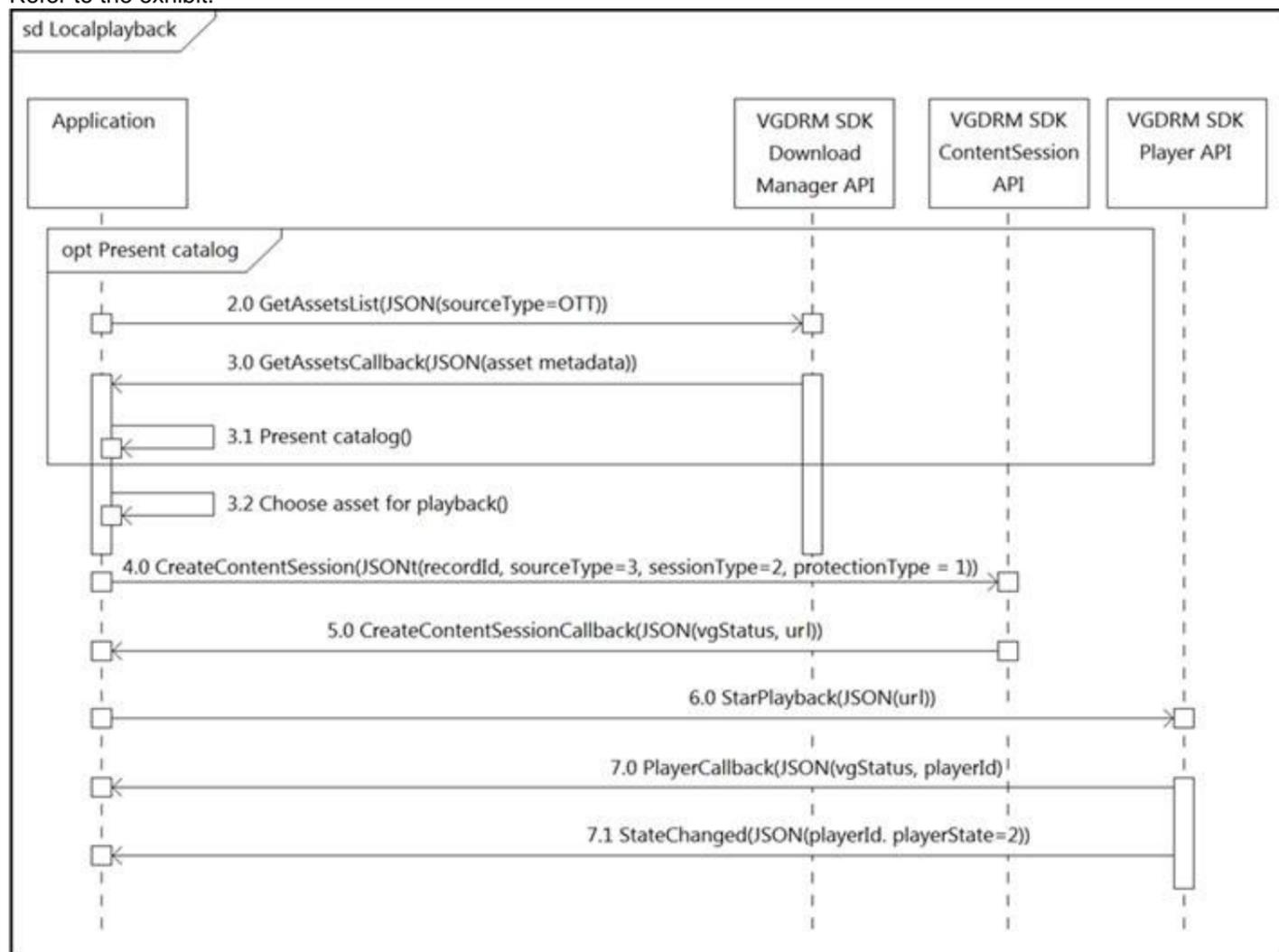
- A. allows Python scripts to be executed externally from a network device
- B. uses JSON to encode data in its content layer
- C. allows XML messages to be exchanged via the SSH protocol
- D. exposes a web-based interface

Answer: C

NEW QUESTION 3

- (Exam Topic 2)

Refer to the exhibit.



What do all the calls shown in the sequence diagram have in common?

- A. All the calls are optional.
- B. All the calls are asynchronous.
- C. All the calls are synchronous.
- D. All the calls depend on the catalog.

Answer: D

NEW QUESTION 4

- (Exam Topic 2)

Which protocol runs over TCP port 23?

- A. SSH
- B. NETCONF
- C. HTTP
- D. Telnet

Answer: D

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)

A developer has created a new image to use in a Docker build and has added a tag for the image by using the command:

```
$ docker tag 84fe411926287 local/app:0.4
```

Which command must be executed next to build the Docker image using the tag?

- A. \$ docker build -p local/app:0.4
- B. \$ docker run -t local/app:0.4
- C. \$ docker run -p local/app:0.4
- D. \$ docker build -t local/app:0.4

Answer: D

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,
-   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)

Access to the management interface of devices must be restricted by using SSH and HTTPS. Which two ports must be included in the ACLs for the protocols to work? (Choose two.)

- A. 22
- B. 23
- C. 80
- D. 443
- E. 880

Answer: AD

NEW QUESTION 9

- (Exam Topic 2)

A company wants to accelerate the adoption of technologies that will simplify its operations. Staff have different skill levels and are looking for a single site to find easy-to-consume beginner, intermediate, and advanced multidomain use cases. Which site should be used?

- A. DevNet Ecosystem Exchange
- B. DevNet Automation Exchange
- C. DevNet Creations
- D. DevNet Support Forum

Answer: D

NEW QUESTION 10

- (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 functions of a routing table on a network device? (Choose two.)

- A. It lists entries more than two hops away.
- B. It lists the routes to a particular destination.
- C. It lists the routes to drop traffic.
- D. It lists hosts that are one hop away.
- E. It lists the static and dynamic entries.

Answer: BE

NEW QUESTION 12

- (Exam Topic 2)

Refer to the exhibit.

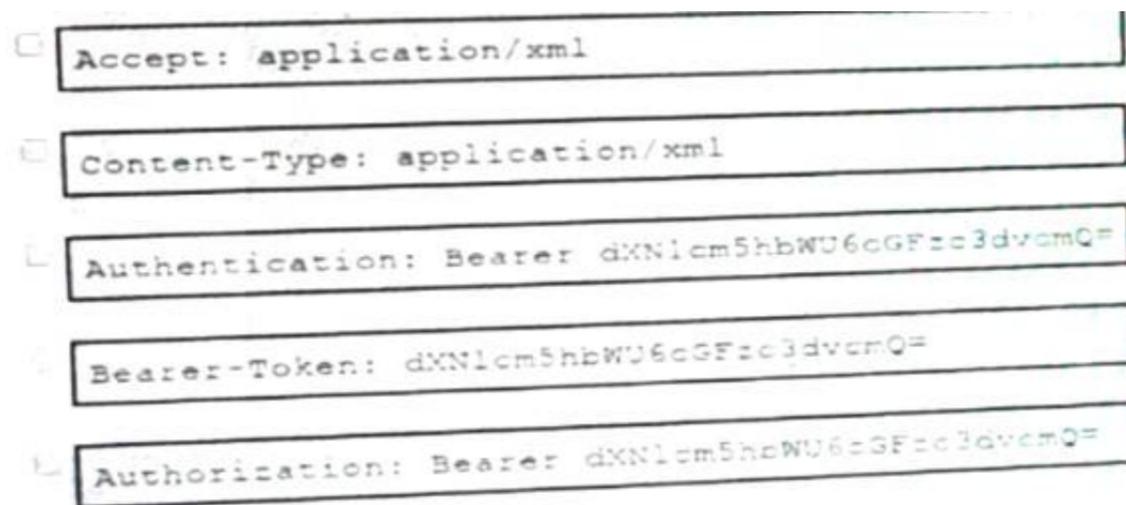
API v1 documentation:
 Authentication and authorization: Bearer Token
 Inventory endpoint: /api/v1/inventory
 Method: GET
 Response formats: text/html, application/json, application/html

Token:
 dXNlcm5hbWU6cGFzc3dvcmQ=

Api call:
 GET /api/v1/inventory HTTP/1.1
 Host: example.com

Response:
 HTTP/1.1 401 Unauthorized

An API call is constructed to retrieve the inventory in XML format by using the API. The response to the call is 401 Unauthorized. Which two headers must be added to the API call? (Choose two.)



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

Answer: BE

NEW QUESTION 17

- (Exam Topic 2)

While developing a real-Time VoIP application on a Cisco Webex platform, users report that their voice gets chopped or parts of the conversation drop out. Which network constraint is impacting the application?

- A. latency
- B. jitter
- C. capacity
- D. delay

Answer: B

NEW QUESTION 22

- (Exam Topic 2)

What is the purpose of a MAC address on a network device?

- A. unique network address that identifies the network interface of a device
- B. unique network interlace address that is provided by the DHCP server
- C. unique hardware address that identifies the network interface of a device
- D. unique hardware interface address that is provided by the central switch

Answer: C

NEW QUESTION 24

- (Exam Topic 2)

A new application is being developed with specific platform requirements. The platform and application deployment and the ongoing platform management must be fully automated. The application includes a large database component that has significant disk I/O requirements. Which application deployment type meets the requirements?

- A. Python virtual environment
- B. virtual machine
- C. bare metal
- D. container

Answer: B

NEW QUESTION 27

- (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 29

- (Exam Topic 2)

Which API must an engineer use to change a netmask on a Cisco IOS XE device?

- A. Meraki
- B. RESTCONF/YANG
- C. SD-WAN
- D. DNAC

Answer: B

NEW QUESTION 32

- (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 37

- (Exam Topic 2)

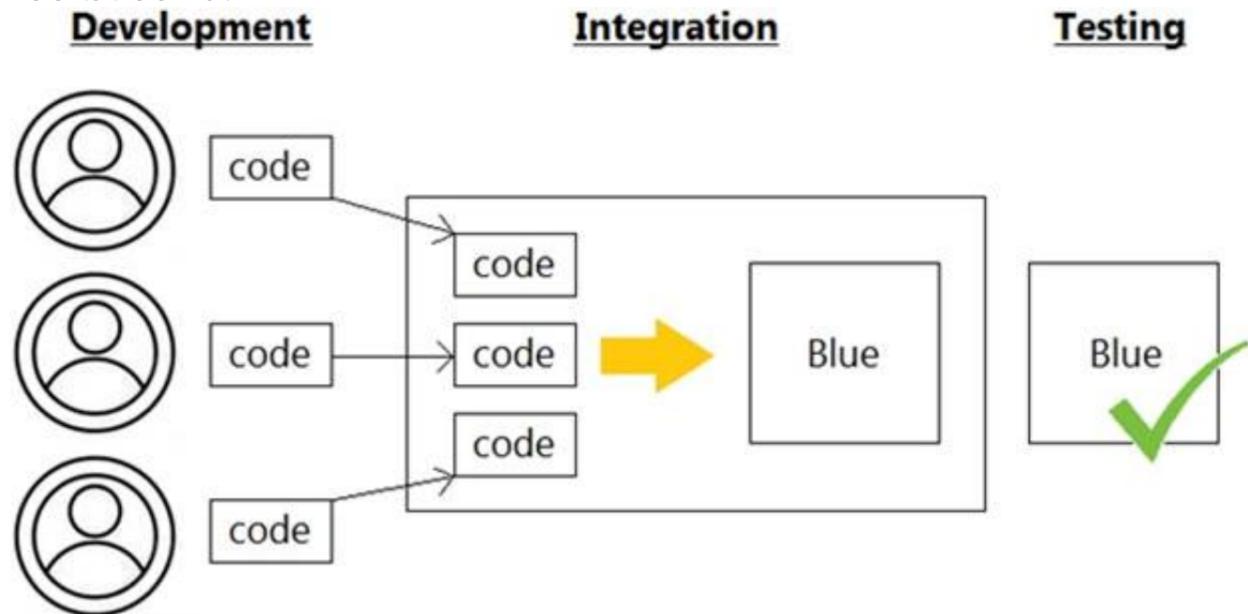
In which two ways is an application characterized when interacting with a webhook? (Choose two.)

- A. codec
- B. receiver
- C. transaction monitor
- D. processor
- E. listener

Answer: BE

NEW QUESTION 39

- (Exam Topic 2)
 Refer to the exhibit.



Which infrastructure automation method is shown?

- A. Waterfall
- B. CI/CD pipeline
- C. Agile
- D. Lean

Answer: C

NEW QUESTION 43

- (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 47

- (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 49

- (Exam Topic 2)

Refer to the exhibit.

```
SDK Documentation:

Class: Devices

Device List: get_device_list()
Get device: get_device_by_id(id)
Delete device: delete_device_by_id(id)
Device status: inventoryStatusDetail
Device Parameters:
  id
  upTime
  type
```

A Python script must delete all Cisco Catalyst 9300 Series switches that have an uptime that is greater than 90 days. The script must also query for the status of all the other devices. Drag and drop the code from the bottom onto the bottom box; the code is missing to complete the script. Not all options are used.

Answer Area

```
from dnacentersdk import DNACenterAPI

device_type = "Cisco Catalyst 9300 Switch"
api_session = DNACenterAPI(
    base_url="https://sandboxdnac.cisco.com",
    username="user", password="password"
)

devices = 

for device in devices:
    if int(device.upTime.split()[0]) > 90:
        if device.type == device_type:
            output = 
            print(output)

        else:
            selected_device = 
            output = 
            print(output)
```

-
-
-
-
-

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

NEW QUESTION 52

- (Exam Topic 2)

A developer creates a web application that receives a username and password and uses them to sync the credentials to other services through HTTPS. API keys

to services are part of the configuration files of the application, but the credentials to the database that stores the synchronization logs are obtained through an external vault service. What is the security issue in this scenario?

- A. Communication between the application and the services is not encrypted.
- B. The database credentials should be stored in the configuration files so that they are secured on the same server.
- C. The API keys are stored in the configuration files but should be stored in the vault service.
- D. The synchronization logs should be encrypted and not stored in a relational database.

Answer: A

NEW QUESTION 57

- (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 58

- (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 60

- (Exam Topic 2)

Refer to the exhibit.

```

user_manager.py
1  import psycopg2
2  import json, sys
3
4  # Load config file
5  config = None
6  with open('config.json') as config_file:
7      config = json.load(config_file)
8  if not config:
9      print("Error loading configuration file.")
10     sys.exit(1)
11
12 connection = psycopg2.connect(
13     database="users",
14     host=config["DB_USER"], user=config["DB_USER"], password=config["DB_PWD"]
15 )
16 connection.set_session()
17
18 def has_admin_role(username):
19     with connection.cursor() as cursor:
20         query = 'SELECT admin_role FROM users WHERE username = {0}'
21         cursor.execute(query.format(username))
22         result = cursor.fetchone()
23     return result
24
25 has_admin_role("ops.shared")

config.json
1  {
2      "DB_USER": "pguser",
3      "DB_PWD": "@123Qwer%4",
4      "DB_HOST": "devnetdb.example.com"
5  }
    
```

An engineer must check the admin rights of users on a database regularly and prepares the Python script to automate the process. The script connects to the database and runs a query. What is a security issue about the secrets in the code that relates to secret protection?

- A. They must be stored in configuration files if there is a possibility of leakage.
- B. They must be Base64-encoded if stored in the user database.
- C. They must be encrypted if stored in the user database.
- D. They must be stored in configuration files if no authentication will be used.

Answer: D

NEW QUESTION 62

- (Exam Topic 2)

A local Docker alpine image has been created with an image ID of a391665405fe and tagged as "latest". Which command creates a running container based on the tagged image, with the container port 8080 bound to port 80 on the host?

- A. docker build -p 8080:80 alpine:latest
- B. docker exec -p 8080:80 alpine:latest
- C. docker start -p 8080:80 alpine:latest
- D. docker run -p 8080:80 alpine:latest

Answer: D

Explanation:

https://docs.docker.com/get-started/02_our_app/

NEW QUESTION 63

- (Exam Topic 2)

What are two benefits of using VLANs? (Choose two.)

- A. limits the devices that can join the network
- B. segments the broadcast domain
- C. extends the broadcast domain
- D. allows all network devices to be accessible from any host on the network
- E. enables the logical grouping of devices that belong to different Layer 2 devices

Answer: BE

NEW QUESTION 66

- (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 69

- (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 74

- (Exam Topic 2)

A company is adopting DevOps as part of an internal transformation, and is reviewing the success of the first deployments. Developers and engineers are working together to resolve any resulting issues. However, this new way of working has increased overhead, and the team is finding it difficult to complete releases in time. Which area of the CALMS framework must the company target for improvement?

- A. Collaboration
- B. Lean
- C. Sharing
- D. Measurement

Answer: B

Explanation:
 Reference: <https://blog.sonatype.com/principle-based-devops-frameworks-calms>

NEW QUESTION 75

- (Exam Topic 2)

An engineer must configure Cisco Nexus devices and wants to automate this workflow. The engineer enables the Cisco NX-OS REST API to configure the devices by using an Ansible playbook. Before running the code, which resource must be used to verify that the code works correctly?

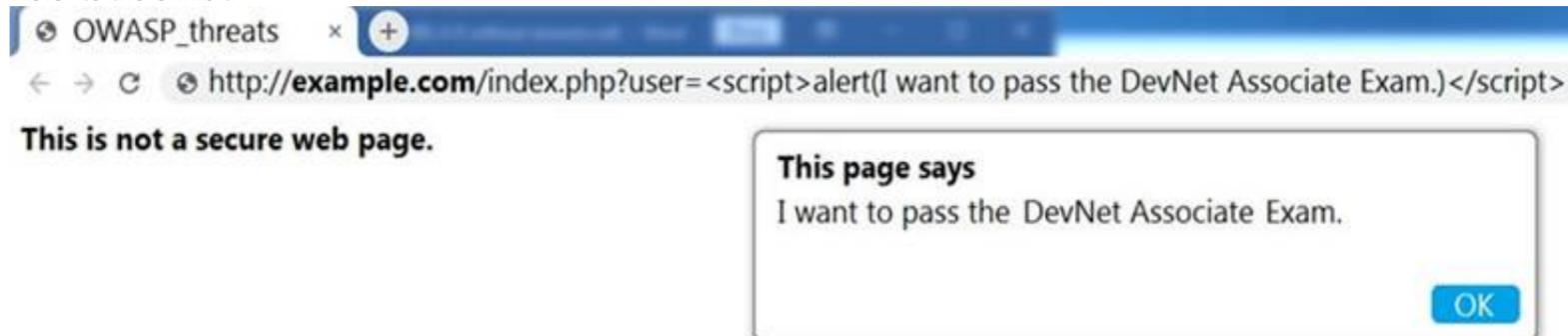
- A. Cisco NX-OS SDK
- B. Cisco Learning Labs
- C. Cisco Code Exchange
- D. Cisco Modeling Labs

Answer: A

NEW QUESTION 79

- (Exam Topic 2)

Refer to the exhibit.



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 84

- (Exam Topic 2)

What is a benefit of model-driven programmability?

- A. It addresses the static architecture of traditional networks being decentralized and complex.
- B. By modeling data, it ensures that vast quantities of data are usable for monitoring.
- C. It provides a programmatic and standards-based way of writing configurations to any network device.
- D. It simplifies management and operations by decoupling the networking hardware from its control mechanism.

Answer: D

NEW QUESTION 87

- (Exam Topic 2)

Refer to the exhibit.

Local File Attachments

To send local file attachments, simply post a message by including your access token in the Authorization header and the path to your local file with the files parameter. Optionally, you can also include a plain-text message with the attachment by using the text parameter. When uploading files directly from your local filesystem, your request will need to be a multipart/form-data request rather than JSON

```
curl --request POST \
  --form "files=@/home/desktop/example.png;type=image/png" \
  --form "roomId=Y21zY2....." \
  --form "text=example attached" \
  https://webexapis.com/v1/messages
```

A developer needs to upload a local file by using the REST API. The developer gathers information according to the documentation and sends the request by using the cURL command in the exhibit but gets an error code. Which action should be followed to get valid response?

- A. change content type as JSON
- B. add the authorization header with the access token
- C. add a username-password combination to request command
- D. change request method as GET

Answer: B

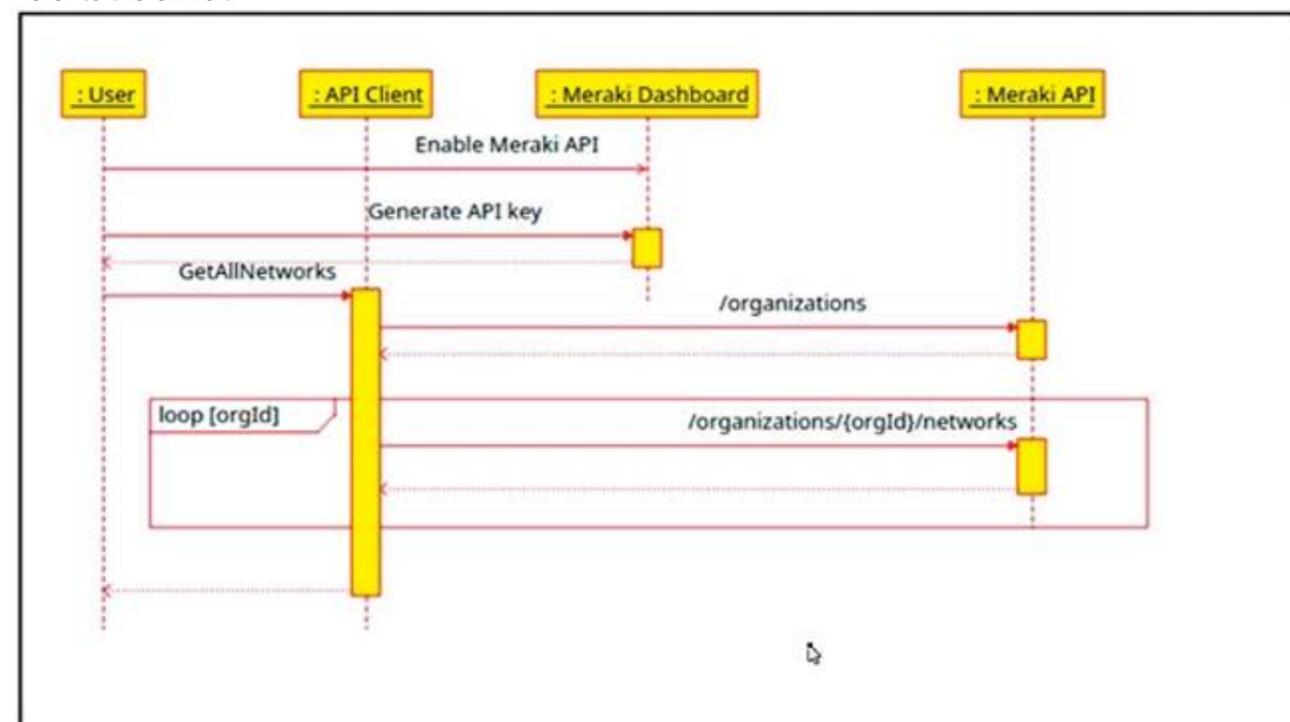
Explanation:

Reference: <https://developer.webex.com/docs/api/basics>

NEW QUESTION 88

- (Exam Topic 2)

Refer to the exhibit.



The Cisco Meraki API manages two organizations. In each organization, two independent networks are defined. How many calls to the /organizations/{orgId}networks endpoint will be run parallel by the GetAllNetwork function of the API client?

- A. 1
- B. 2
- C. 4

Answer: C

NEW QUESTION 89

- (Exam Topic 2)
 Refer to the exhibit.

```
>>> response_data = requests.get(base_url + request_url, cookies=cookies)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'requests' is not defined
>>>
```

A Python code has been written to query a device. The executed code results in the error shown. Which action resolves the problem?

- A. import json
- B. requests("GET", base_url + request_url, cookies=cookies)
- C. pip install requests
- D. import requests

Answer: D

NEW QUESTION 93

- (Exam Topic 2)
 Refer to the exhibit.

```
$ sh script.sh
Traceback (most recent call last):
  File "script.py", line 2, in <module>
    api = WebexTeamsAPI()
  File "/opt/.venv/pyvenv35/lib/python3.5/site-packages/webexsdk/api/__init__.py", line 112,
in __init__
    "You must provide a Webex Teams access token to interact with "
webexsdk.exceptions.AccessTokenError: You must provide a Webex Teams access token to interact
with the Webex Teams APIs, either via a WEBEX_TEAMS_ACCESS_TOKEN environment variable or via the
access_token argument.
$
$
$ cat script.sh
#!/bin/bash

python script.py
$
```

Which line must be included in the Bash script for the Python code to succeed?

- A. define WEBEX_TEAMS_ACCESS_TOKEN=your_access_token_here
- B. export WEBEX_TEAMS_ACCESS_TOKEN=your_access_token_here
- C. set WEBEX_TEAMS_ACCESS_TOKEN=your_access_token_here
- D. WEBEX_TEAMS_ACCESS_TOKEN=your_access_token_here

Answer: B

NEW QUESTION 98

- (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 99

- (Exam Topic 2)

```

1  import requests
2
3  headers = {"X-Cisco-Meraki-API-Key": "KEY1234"}
4  BASE_URL = "https://api-mp.meraki.com/api/v1"
5  FIRST_URL = "/organizations"
6  SECOND_URL = "/networks"
7  THIRD_URL = "clients"
8
9  def first_loop(info):
10     for item in info:
11         if item["name"] == "ACME":
12             URL = BASE_URL + FIRST_URL + "/" + item["id"] + "/" + SECOND_URL
13             response = requests.request("GET", URL, headers=headers)
14             return second_loop(response.json())
15
16  def second_loop(info):
17     for item in info:
18         if item["name"] == "BLDG21":
19             URL = BASE_URL + SECOND_URL + "/" + item["id"] + "/" + THIRD_URL
20             response = requests.request("GET", URL, headers=headers)
21             return third_loop(response.json())
22
23  def third_loop(info):
24     for item in info:
25         return item
26
27  response = requests.request("GET", BASE_URL + FIRST_URL, headers=headers)
28  info = first_loop(response.json())
29  for item in info:
30     print (item["id"])

```

Refer to the exhibit. A network engineer must collect information from the network. The engineer prepares a script to automate workflow by using Cisco Meraki API. The script must run over nested loops to collect organization and network information and uses the collected data for final collection. Which process is being automated by using the Python script?

- A. Gather the IDs of the ACME organization, the BLDG21 network, and the dents on the network
- B. Provide the BLDG21 network information if it is part of the ACME organization
- C. Collect the IDs of the clients on the BLDG21 network
- D. List the IDs from the ACME organization

Answer: A

NEW QUESTION 103

- (Exam Topic 2)

Refer to the exhibit.

```

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:Netconf:base:1.0">
  <get-conflg>
    <source>
      <running/>
    </source>
    <filter>
      <interfaces xmlns=" urn:ietf:params:xml:ns:yang:ietf-interfaces">
        <interface>
          <name/>
        </interface>
      </interfaces>
    </filter>
  </get-config>
</rpc>

```

A network engineer uses model-driven programmability to monitor and perform changes on the network. The network engineer decides to use the NETCONF RPC message to complete one of their tasks. What is accomplished by sending the RPC message?

- A. The running-config of the device is returned.
- B. The name of each interface is reset to a default name.
- C. All the YANG capabilities supported by the device are returned.
- D. A list of interface names is returned.

Answer: D

NEW QUESTION 105

- (Exam Topic 2)

Which protocol must be allowed on the firewall so that NTP services work properly?

- A. ICMP
- B. BGP
- C. UDP
- D. TCP

Answer: C

Explanation:

Reference:

<https://www.cisco.com/c/en/us/support/docs/ip/network-time-protocol-ntp/108076-ntp-troubleshoot.html>

NEW QUESTION 106

- (Exam Topic 2)

A developer created a new secure API and is testing the functionality locally. The API was added to a container for further testing, and other team members and applications need to connect to the API. Which command exposes the API in the container as port 8443 and allows connections external to the host?

- A. docker run -p 127.0.0.1:80:8443/tcp myapiservice
- B. docker run -p 0.0.0.0:443:8443/tcp myapiservice
- C. docker run -p 0.0.0.0:8443:443/tcp myapiservice
- D. docker run -p 127.0.0.1:443:8443/tcp myapiservice

Answer: C

NEW QUESTION 108

- (Exam Topic 2)

Refer to the exhibit.

```
diff --git a/ciscoaxl/axl.py b/ciscoaxl/axl.py
index bc7727e..d66ef4d 100644
--- a/ciscoaxl/axl.py
+++ b/ciscoaxl/axl.py
@@ -99,7 +99,7 @@ class axl(object):
     :return: result dictionary
     """
     try:
-         return self.client.executeSQLUpdate(query)
+         return self.client.executeSQLUpdate(query) ['return']
     except Fault as e:
         return e

diff --git a/setup.py b/setup.py
index df79ef4..1470b05 100644
--- a/setup.py
+++ b/setup.py
@@ -5,7 +5,7 @@ with open("README.md", "r") as fh:

setup(
    name="ciscoaxl",
-   version="0.14",
+   version="0.141",
    author="User 1",
    author_email="user1@example.com",
    description="Cisco CUCM AXL Library. Simple to use.",
```

Which two files are being edited in the unified diff? (Choose two.)

- A. README.md
- B. setup.py
- C. axl.py
- D. ciscoaxl.py
- E. index.py

Answer: BC

NEW QUESTION 109

- (Exam Topic 2)

Which HTTP response code should be returned when the request is completed, but there is no content to send for the request?

- A. A.-100B.204C.302D.402

Answer: B

Explanation:

Reference: https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#successful_responses

NEW QUESTION 113

- (Exam Topic 1)

What should a CI/CD pipeline aim to achieve?

- A. to allow manual testing before deployment
- B. to require minimal manual interaction
- C. to support new deployments on a fixed monthly schedule
- D. to provide a documented process for feedback

Answer: A

NEW QUESTION 115

- (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 `clid()` 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_

NEW QUESTION 120

- (Exam Topic 1)

Which two statements describe the traits of an asynchronous API call? (Choose two.)

- A. The order in which API calls return can be guaranteed
- B. A call to an API does not block the code, but rather it allows application processing to continue
- C. The end user can experience latency or performance lag while waiting for the API call to return
- D. Code execution blocks or waits for the call to an API to return.
- E. A callback function typically is used to process the response from an API call

Answer: BE

NEW QUESTION 125

- (Exam Topic 1)

Which action resolves a 401 error in response to an HTTP GET that is issued to retrieve statement using RESTCONF on a CSR 1000V?

- A. Change the HTTP method to PUT.
- B. Change the transport protocol to HTTPS.
- C. Check the MIMF types in the HTTP headers.
- D. Check the authentication credentials.

Answer: D

NEW QUESTION 127

- (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 131

- (Exam Topic 1)

Which HTTP status Code means that the server cannot or will not process the request because of perceived client error?

- A. 100
- B. 203
- C. 303
- D. 400

Answer: D

NEW QUESTION 135

- (Exam Topic 1)

What is used in Layer 2 switches to direct packet transmission to the intended recipient?

- A. spanning tree
- B. IPv4 address
- C. IPv6 address
- D. MAC address

Answer: D

NEW QUESTION 136

- (Exam Topic 1)

Refer to the exhibit.

```

1      ---
2      - hosts: {{ router }}
3        gather_facts: true
4        connection: local
5
6      tasks:
7      - ios_command
8        commands:
9          - show run
10         provider: "{{ router_credentials }}"
11         register: config
12
13     - copy:
14       content: "{{ config.stdout[0] }}"
15       dest: "etc/ansible/configs/command_{{ router_hostname }}.txt
16     ...

```

What is the effect of this Ansible playbook on an IOS router?

- A. A new running configuration is pushed to the IOS router.
- B. The current running configuration of the IOS router is backed up.
- C. The start-up configuration of the IOS router is copied to a local folder.
- D. A new start-up configuration is copied to the IOS router.

Answer: B

NEW QUESTION 141

- (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 145

- (Exam Topic 1)

In which situation would an edge computing solution be used?

- A. where low latency is needed
- B. where high CPU throughput is needed
- C. where fast memory is needed
- D. where high disk space is needed

Answer: A

NEW QUESTION 146

- (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.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2MmQ3NGM5YzE5ZTIiLCJmYzMCiSlmV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraXN371274739.zhK5LPQd501ZUpZi0IH_qrgOXtItINbxSFFF7JOEtRIs'}
}
response = requests.request( [redacted] , url,
headers = [redacted] , data = [redacted] )
print(response.text.encode('utf8'))
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution as below.

```
import requests
url = "https://myDNAserver/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2MmQ3NGM5YzE5ZTIiLCJmYzMCiSlmV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraXN371387657.zhK5LPQd501ZUpZi0IH_qrgOXtItINbxSFFF7JOEtRIs'}
}
response = requests.request("GET" [redacted] , url,
headers = headers , data = payload )
print(response.text.encode('utf8'))
```

NEW QUESTION 151

- (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 153

- (Exam Topic 1)

Which CI/CD tool is an automation tool used to build, test, and deploy software?

- A. Nagios
- B. Gradle
- C. Jenkins
- D. Git

Answer: C

Explanation:

Reference:

<https://www.infoworld.com/article/3271126/what-is-cicd-continuous-integration-and-continuous-delivery-expla>

NEW QUESTION 158

- (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 162

- (Exam Topic 1)

Refer to Exhibit.

```
<books>
  <science>
    <biology>10.00</biology>
    <geology>9.00</geology>
    <chemistry>8.00</chemistry>
  </science>
  <math>
    <calculus>20.00</calculus>
    <algebra>12.00</algebra>
  </math>
</books>
```

Which JSON is equivalent to the XML-encoded data.

A)

```
{
  "books": {
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  }
}
```

B)

```
[ {
  "books": {
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  }
} ]
```

C)

```
{
  "books": [
    "science", {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math", {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

D)

```
{
  "books": [
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}
```

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

Answer: A

NEW QUESTION 163

- (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 164

- (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 167

- (Exam Topic 1)

Drag and Drop the GIT commands from the left onto the right that add modified local files to a remote repository. Not all options are used

git push	Git command one
git add .	Git command two
git checkout -b "new branch"	Git command three
git commit -m "this is my edit"	
git pull	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

git add .
 git commit -m "this is my edit" git push

NEW QUESTION 172

- (Exam Topic 1)

An automation script fails to connect to an internal server exactly 1 out of 2 times it is executed. This behavior is seen from different clients. Which networking device must be at fault?

- A. Laptop on which the script is running
- B. Router
- C. Switch
- D. Load balancer

Answer: D

NEW QUESTION 174

- (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 175

- (Exam Topic 1)

Which two items are Cisco DevNet resources? (Choose two.)

- A. TAC support
- B. Bitbucket
- C. Sandbox
- D. Software research
- E. API Documentation

Answer: CE

Explanation:

Reference: <https://developer.cisco.com/>

NEW QUESTION 178

- (Exam Topic 1)

Which device is used to transport traffic from one broadcast domain to another broadcast domain?

- A. load balancer
- B. layer 2 switch
- C. router
- D. proxy server

Answer: C

NEW QUESTION 179

- (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 183

- (Exam Topic 1)

what is an advantage of a version control system?

- A. forces the practice of trunk-based development
- B. prevents over-writing code or configuration files
- C. facilitates resolving conflicts when merging code
- D. ensures that unit tests are written

Answer: C

NEW QUESTION 185

- (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_

NEW QUESTION 187

- (Exam Topic 1)

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right. Not all options are used.

SSH	gRPC
HTTP	NETCONF
HTTP/2	RESTCONF
HTTPS	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

SSH	gRPC
HTTP	HTTP/2
HTTP/2	NETCONF
HTTPS	SSH
	RESTCONF
	HTTPS

NEW QUESTION 188

- (Exam Topic 1)

Which platform has an API that be used to obtain a list of vulnerable software on user devices?

- A. Cisco Umbrella
- B. Cisco Firepower
- C. Cisco Identity Services Engine
- D. Cisco Advanced Malware Protection

Answer: D

NEW QUESTION 193

- (Exam Topic 1)

In DNS, which record specifies an alias that refers to another name that ultimately resolves to an IP address?

- A. AAA
- B. SOA
- C. NS
- D. CNAME

Answer: D

Explanation:

Reference: <https://ns1.com/resources/dns-types-records-servers-and-queries>

NEW QUESTION 197

- (Exam Topic 1)

Which network device monitors incoming and outgoing traffic and decides whether to allow or block specific traffic based on a defined set of rules?

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

Answer: D

NEW QUESTION 201

- (Exam Topic 1)

What are two advantages of YANG-based approaches for infrastructure automation? (Choose two.)

- A. directly maps to JavaScript
- B. multi-platform vendor abstraction
- C. designed to reflect networking concepts
- D. compiles to executables that run on network devices
- E. command line driven interface

Answer: BC

NEW QUESTION 202

- (Exam Topic 1)

In python, which expression checks whether the script returns a success status code when the Requests library is used?

- A. `response.status_code == requests.ok`
- B. `response.status_code == requests.codes.ok`
- C. `response.code == requests.codes.ok`
- D. `response.status_code != requests.codes.ok`

Answer: B

Explanation:

Reference: <https://realpython.com/python-requests/>

NEW QUESTION 207

- (Exam Topic 1)

Which way should be used to safely the API keys?

- A. In an environment variable unique to the system database
- B. Encrypted in a configuration file that is separate from the code
- C. Encrypted in the code in a function
- D. Plain text in the code as a constant

Answer: B

NEW QUESTION 212

- (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 [redacted] [redacted] ; do
[redacted] $f ` 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 [redacted] $TARGET_DIR` ; do
mv [redacted] $f ` openssl sha -sha256 -r < $f | cut -f1 -d' '
done
```

NEW QUESTION 217

- (Exam Topic 1)

Which two elements are foundational principles of DevOps? (Choose two.)

- A. designing applications as microservices
- B. encouraging containers for the deployment of applications
- C. organizing cross-functional teams over organizational silos
- D. optimizing the cost of infrastructures
- E. automating over documenting

Answer: CE

NEW QUESTION 222

- (Exam Topic 1)

Which statement about authentication a RESTCONF API session with a router that runs Cisco IOS XE software is true?

- A. OAuth must be used.
- B. A token must be retrieved and the associated string must be embedded in the X-Auth-Token header.
- C. Basic authentication must be used.
- D. No authentication is required.

Answer: C

NEW QUESTION 227

- (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 228

- (Exam Topic 1)

Refer to the exhibit.

HTTP REQUEST

POST /organizations/{organizationId}/networks

PARAMETERS

name
The name of the new network

type
The type of the new network. Valid types are wireless, appliance, switch, systemsManager, camera, cellularGateway, or a space-separated list of those for a combined network.

tags
A space-separated list of tags to be applied to the network

timeZone
The timezone of the network. For a list of allowed timezones, please see the 'TZ' column in the table in [this article](#).

copyFromNetworkId
The ID of the network to copy configuration from. Other provided parameters will override the copied configuration, except type which must match this network's type exactly.

disableMyMerakiCom
Disables the local device status pages (my.meraki.com, ap.meraki.com, switch.meraki.com, wired.meraki.com). Optional (defaults to false)

disableRemoteStatusPage
Disables access to the device status page (http://[device's LAN IP]). Optional. Can only be set if

Drag and Drop the code from the bottom onto the box where the code is missing on the Meraki Python script to create a new network

```
base_url = "https://api.meraki.com/api/v0"
org_id = "123456789"
api_key = "1098hadpfsiapf8ahf8ohp"
network_name = "New Network"
requests.post(
    base_url + "/" + [ ] + "/" + [ ] + "/networks",
    [ ] = {
        "X-Cisco-Meraki-API-Key": [ ],
        "Content-Type": "application/json"
    },
    data=json.dumps({"[ ]": network_name,
                    "type": "wireless switch"
                    }))
```

organizations headers

api_key org_id

name

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
base_url = "https://api.meraki.com/api/v0"
org_id = "123456789"
api_key = "1098hadpfsiapsf8ahf8ohp"
network_name = "New Network"
requests.post(
    base_url + "/" + organizations + "/" + org_id + "/networks",
    headers = {
        "X-Cisco-Meraki-API-Key": api_key,
        "Content-Type": "application/json"
    },
    data=json.dumps({
        "name": network_name,
        "type": "wireless switch"
    })
)
```

NEW QUESTION 229

- (Exam Topic 1)

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right. (Not all Options are used)

SSH	gRPC
HTTP	NETCONF
HTTP/2	RESTCONF
HTTPS	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Grpc == http/2 , netconfig == ssh , restconfig == https

NEW QUESTION 232

- (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 233

- (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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

<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>

NEW QUESTION 234

- (Exam Topic 1)

What is the Git command to delete a local branch named "experiment" without a warning?

- A. git branch -n experiment
- B. git branch -rm experiment
- C. git branch -f experiment
- D. git branch -D experiment

Answer: D

Explanation:

Reference: <https://www.atlassian.com/git/tutorials/using-branches>

NEW QUESTION 238

- (Exam Topic 1)

Fill in the blanks to complete the statement.

Cisco DNA provide the capability to send an HTTP _____ request to the API endpoint https://DNA-c_API_ADDRESS/api/vi/network-device/ and receive the network _____ list in _____ format.

- A. Mastered

B. Not Mastered

Answer: A

Explanation:

Solution below as

Cisco DNA Center provides the capability to send an HTTP `GET` request to the API endpoint `https://DNA-C_API_ADDRESS/api/v1/network-device/` and receive the network device list in `JSON` format

NEW QUESTION 243

- (Exam Topic 1)

Drag and Drop the Bash commands from the left onto the correct actions on the right.

<code>cd~</code>	list files in directory sorted by edited date descending
<code>cd/</code>	create directory
<code>ls -l</code>	copy file
<code>ls -t</code>	change directory to user \$HOME
<code>cp</code>	create environment variable
<code>cp -r</code>	change directory to file system root
<code>mv</code>	move file
<code>touch</code>	create file
<code>mkdir</code>	copy directory
<code>export</code>	list files in directory with details

A. Mastered
 B. Not Mastered

Answer: A

Explanation:

1 - d, 2 - i, 3 - e, 4 - a, 5 - j, 6 - b, 7 - g, 8 - h, 9 - c, 10 - f

NEW QUESTION 245

- (Exam Topic 1)

Which detail is included in a routing table?

- A. IP protocol
- B. Broadcast address
- C. TCP or UDP port number
- D. Destination next hop or outgoing interface

Answer: D

Explanation:

Reference: <https://geek-university.com/ccna/routing-table-explained/>

NEW QUESTION 250

- (Exam Topic 1)

What is the purpose of the Cisco VIRL software tool?

- A. To verify configurations against compliance standards

- B. To simulate and model networks
- C. To automate API workflows
- D. To test performance of an application

Answer: B

Explanation:

Reference: <https://www.speaknetworks.com/cisco-virl-better-gns3/>

NEW QUESTION 251

- (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 255

- (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 257

- (Exam Topic 1)

Which two descriptions can be given to an application that is interacting with a webhook? (Choose two.)

- A. Processor
- B. Codec
- C. Listener
- D. Receiver
- E. Transaction monitor

Answer: CD

NEW QUESTION 261

- (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

NEW QUESTION 262

- (Exam Topic 1)

Refer to the exhibit.

```

---
- hosts: CISCO_ROUTER_01
  gather_facts: true
  connection: network_cli

  tasks:
    - name: show conf
      ios_command:
        commands:
          - show conf
      register: config

    - name: save output to /etc/ansible/configs
      copy:
        content: "{{ config.stdout[0] }}"
        dest: "/etc/ansible/configs/show_conf_{{ inventory_hostname }}.txt"

```

What is the result of executing this Ansible playbook?

- A. The playbook copies a new start-up configuration to CISCO_ROUTER_01.
- B. The playbook backs up the running configuration of CISCO_ROUTER_01.
- C. The playbook backs up the start-up configuration of CISCO_ROUTER_01.
- D. The playbook copies a new running configuration to CISCO_ROUTER_01.

Answer: C

NEW QUESTION 263

- (Exam Topic 3)

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

- A. application/yaml-data+json
- B. application/yang-data+json
- C. application/xml-data+json
- D. application/json-data+xml

Answer: D

NEW QUESTION 267

- (Exam Topic 3)

Which HTTP method is used by webhooks and notifies a listener about an event change?

- A. PUT
- B. POST
- C. PATCH
- D. GET

Answer: B

NEW QUESTION 270

- (Exam Topic 3)

What is a characteristic of RPC APIs compared to REST APIs?

- A. Authentication is done over provisions for the service caller and vice versa for RPC API, and REST API uses HTTP headers for authentication.
- B. All communications between the client and server must be stateless for RPC API, and REST API is stateful.
- C. The architecture model for RPC API is resource-focused, and REST API is procedure-focused.
- D. The data payload must be in JSON format for RPC API, and REST API allows JSON and XML formats.

Answer: A

NEW QUESTION 271

- (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 276

- (Exam Topic 3)

What is the meaning of the HTTP status code 204?

- A. request completed; new resource created
- B. server successfully processed request; no content returned
- C. standard response for successful requests
- D. invalid query parameters

Answer: B

NEW QUESTION 279

- (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 283

- (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 284

- (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 287

- (Exam Topic 3)

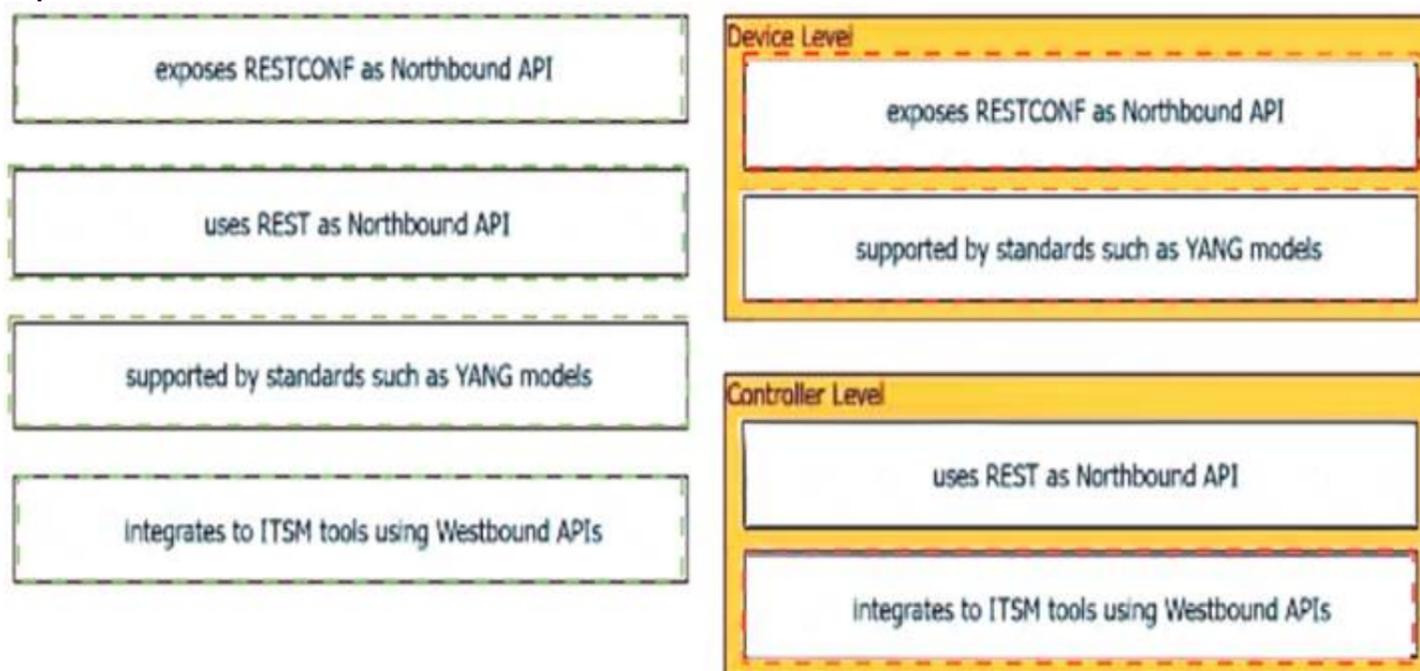
Drag and drop characteristics from the left onto the infrastructure management methodologies on the right.

exposes RESTCONF as Northbound API	Device Level <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <div style="border: 1px solid black; height: 30px; width: 100%;"></div>
uses REST as Northbound API	
supported by standards such as YANG models	Controller Level <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <div style="border: 1px solid black; height: 30px; width: 100%;"></div>
integrates to ITSM tools using Westbound APIs	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 290

- (Exam Topic 3)

A team of developers is responsible for a network orchestration application in the company. The responsibilities also include: developing and improving the application in a continuous manner deployment of the application and management of CI/CD frameworks monitoring the usage and problems and managing the performance improvements Which principle best describes this DevOps practice?

- A. responsible for IT operations
- B. automation of processes
- C. end-to-end responsibility
- D. quality assurance checks

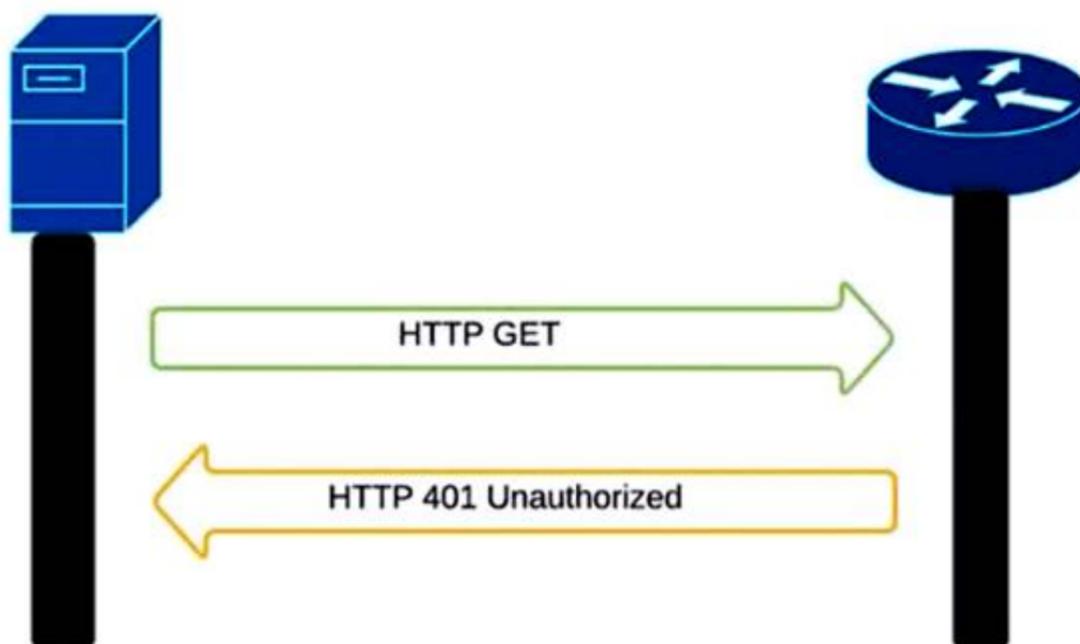
Answer: C

NEW QUESTION 295

- (Exam Topic 3)

Refer to the exhibit.

```
curl -i -k -X 'GET' 'https://172.18.110.64:443/restconf/data/Cisco-IOS-XE-native:native/hostname'
-H 'Accept: application/yang-data+json' \
-u 'cisco:cisco'
```



An administrator attempts to perform a GET operation by using the Cisco IOS XE RESTCONF API to return the hostname of a device. The sequence diagram in the exhibit illustrates the HTTP messages observed. Which change to the API request resolves the issue?

- A. Remove the -H 'Accept: application/yang-data+json' header.
- B. Replace -u cisco:cisco parameter with -u 'cisco:cisco'.
- C. Change the request method from -X 'GET' to -X 'POST'.
- D. Add the -H 'Content-Type: application/yang-data+json' header.

Answer: B

NEW QUESTION 298

- (Exam Topic 3)

A company deploys an application via containers in its local data center. As soon as the application goes into production, it starts to crash at specific hours of the day. After investigation, it is concluded that the crashes are due to too many users accessing the application simultaneously. The spikes must be addressed and allow for future growth without discarding the investment already made. Which deployment model must be used?

- A. hybrid cloud
- B. edge
- C. private cloud
- D. public cloud

Answer: A

NEW QUESTION 299

- (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 301

- (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 306

- (Exam Topic 3)

Which command reverses the last commit without changing the index file or the working tree position?

- A. git revert HEAD
- B. git reset --hard HEAD~3
- C. git reset --soft HEAD^
- D. git revert

Answer: C

NEW QUESTION 308

- (Exam Topic 3)

A developer is attempting to retrieve all the messages from a Cisco Webex space. The server responds by sending the first 1,000 messages. The developer must make additional requests to retrieve the rest of the messages. Which API constraint is described in this scenario?

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

Answer: C

Explanation:

<https://developer.atlassian.com/server/confluence/pagination-in-the-rest-api/>

NEW QUESTION 312

- (Exam Topic 3)

A developer creates a program in which an object maintains a list of classes based on the observer pattern. The classes are dependent on the object. Whenever the state of the object changes, it notifies the dependent classes directly through callbacks. Which advantage of the observer pattern offers minimum dependencies and maximum flexibility between dependent objects or classes?

- A. tight coupling
- B. cohesion
- C. mediation
- D. loose coupling

Answer: D

NEW QUESTION 315

- (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 316

- (Exam Topic 3)

Drag and drop the characteristics from the left onto the corresponding categories on the right to compare RESTful and RPC APIs.

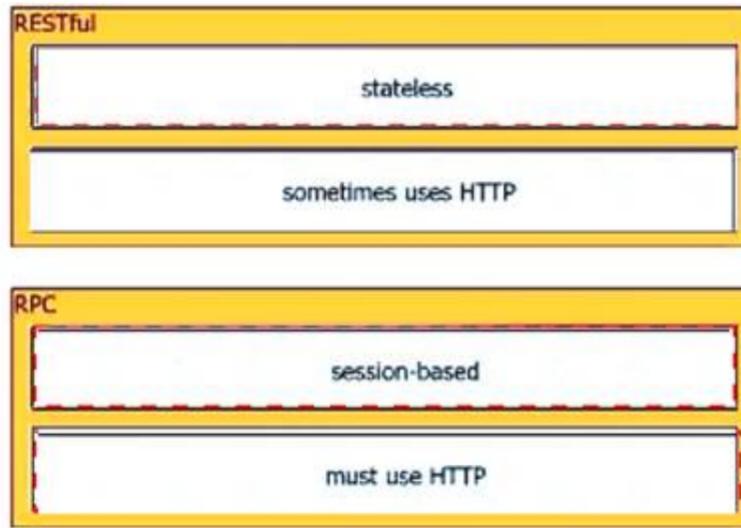
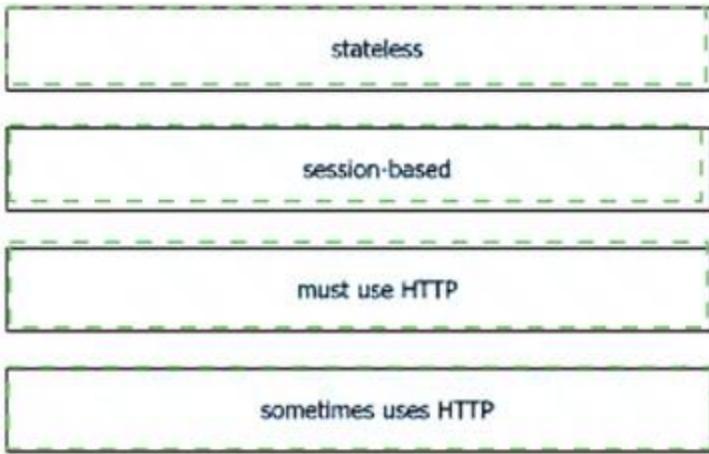
Answer Area

stateless	RESTful
session-based	
must use HTTP	RPC
sometimes uses HTTP	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 321

- (Exam Topic 3)

/api/access/global/rules API operations on global access rules. GET PUT PATCH POST DELETE

Implementation Notes
 Add a new global access rule.

Parameters

Parameter	Required	Description	Type	Data Type
body	true	Definition of the global access rule to be added.	body	ExtendedACE

Response
 Response Content Type
 Response Object ExtendedACE

ExtendedACE Model

Field	Value	Description	Constraints
sourceAddress*	object	source address in the ace	None
destinationAddress*	object	destination address in the ace	None
kind*	string	The kind of this resource object.	None
dstSecurity	object	destination security group in the ace	None
dstSecurity. Value	string		None
active*	boolean	shows if the rule is active or inactive, default is active	None
destinationService*	object	destination service in the ace	None
permit*	boolean	shows if the action is permit or deny	None

Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to complete the function that adds a new global access rule that denies traffic using the Cisco ASA REST API. Not all options are used.

```
import requests as req
def add_rule(token, asa IP, dest v4Address):
    data = {
        "destinationAddress": {
            "kind": "IPv4Address",
            "value": dest v4Address
        },
        "destinationService": {
            "kind": "NetworkProtocol",
            "value": "ip"
        },
        [redacted]
        "active": True,
        "sourceAddress": {
            "kind": "AnyIPAddress",
            "value": "any4"
        }
    }
    objectRequestUrl='https://' + [redacted]
    res = req.request([redacted]
                      json=data,verify=False)
    [redacted]
    print("Success.")
else:
    print("Failed")
```

```
if res.status_code == 201:
if res.status_code == 203:
+ asa_IP + "/api/access/global/rules"
'POST', objectRequestUrl,
"permit": False,
+ asa_IP = "/access/global/rules"
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, email Description automatically generated

NEW QUESTION 322

- (Exam Topic 3)

Drag and drop the code from the bottom onto the box where the code is missing to obtain a list of network devices by using the Cisco Meraki API. Not all options are used.

```
import requests

url = "https://api.meraki.com/api/v0/[redacted] /{{networkId}}/[redacted]"

payload = {}
headers = {
    'Accept': '*/*'
}

response = requests.request("[redacted]", url, headers=headers, data=payload)

print(response.text.[redacted] ('utf8'))
```

- teams
- networks
- devices
- GET
- POST
- encrypt
- encode

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
import requests

url = "https://api.meraki.com/api/v0/networks/{{networkId}}/devices"

payload = {}
headers = {
    'Accept': '*/*'
}

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

print(response.text.encode('utf8'))
```

teams networks devices GET POST encrypt encode

NEW QUESTION 324

- (Exam Topic 3)

A developer creates a new application, but the application must be tested before being released to a customer. When a mobile phone that uses 4G is used to access the application, the request fails. Why does the connection to the application fail?

- A. The application is hosted on premises and VPN connectivity is required
- B. The application must be added to the production server before testing.
- C. The application must be moved to the cloud before testing is possible.
- D. The application connectivity is limited to HTTPS protocol.

Answer: A

NEW QUESTION 327

- (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 331

- (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 335

- (Exam Topic 3)

Which port does HTTPS use by default?

- A. 433
- B. 443
- C. 803
- D. 883

Answer: B

NEW QUESTION 340

- (Exam Topic 3)

What are two benefits of using classes over functions when writing applications? (Choose two.)

- A. improved readability
- B. increased compatibility
- C. variable reusability
- D. increased performance
- E. code organization

Answer: AC

NEW QUESTION 343

- (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.MoDirectory(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+=
    
```

-
-
-
-
-
-
-

- 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.MoDirectory(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+=
    
```

-
-
-
-
-
-
-

NEW QUESTION 344

- (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 348

- (Exam Topic 2)

Which Cisco product provides malware and content filtering through DNS?

- A. Cisco ASA Firepower module
- B. Cisco AMP
- C. Cisco ISE
- D. Cisco Umbrella

Answer: D

NEW QUESTION 352

- (Exam Topic 2)

What is the main purpose of a code review?

- A. To provide the technical lead visibility into all code
- B. To identify and review errors with the team
- C. To ensure that all code is checked in simultaneously
- D. To detect logical errors

Answer: B

NEW QUESTION 354

- (Exam Topic 2)

What is a benefit of using edge computing in an IoT implementation?

- A. low cost in network design
- B. low network design complexity
- C. high availability for network components
- D. high speed in data processing

Answer: D

NEW QUESTION 359

- (Exam Topic 3)

Developer is working on a new feature and made changes on a branch named 'branch-413667549a-new'. When merging the branch to production, conflicts occurred. Which Git command must the developer use to recreate the pre-merge state?

- A. git merge -no-edit
- B. git merge -commit
- C. git merge -revert
- D. git merge -abort

Answer: D

Explanation:

<https://www.git-tower.com/learn/git/ebook/en/command-line/advanced-topics/merge-conflicts>

NEW QUESTION 361

- (Exam Topic 3)

Which Cisco platform is used to manage data center infrastructure through third-party tools and system integrations?

- A. Cisco DNA Center
- B. Cisco UCS Manager
- C. Cisco Intersight
- D. Cisco UCS Director

Answer: D

NEW QUESTION 364

- (Exam Topic 3)

Which two commands download and execute an Apache web server container in Docker with a port binding 8080 in the container to 80 on the host? (Choose two.)

- A. docker pull apache
- B. docker run -p 8080:80 httpd
- C. docker run -p 80:8080 httpd
- D. docker pull httpd
- E. docker pull https

Answer: CD

NEW QUESTION 368

- (Exam Topic 3)

A developer completed the creation of a script using Git. Before delivering it to the customer, the developer wants to be sure about all untracked files, without losing any information. Which command gathers this information?

- A. git clean -n
- B. git rm -f
- C. git clean -r
- D. git rm *

Answer: A

NEW QUESTION 372

- (Exam Topic 3)

A developer is working on a new feature in a branch named 'newfeat123456789' and the current working primary branch is named 'prim987654321'. The developer requires a merge commit during a fast forward merge for record-keeping purposes. Which Git command must be used?

- A. git merge --no-ff newfeat123456789
- B. git commit --no-ff newfeat123456789
- C. git add --commit-ff newfeat123456789
- D. git reset --commit-ff newfeat123456789

Answer: A

NEW QUESTION 377

- (Exam Topic 3)

To which stage of development do Infrastructure as Code principles relate?

- A. manual configuration
- B. service provisioning
- C. physical deployment
- D. requirement collection

Answer: B

NEW QUESTION 379

- (Exam Topic 3)

Refer to the exhibit.

```
workstation:Network admin$ ls
PROD TEST
workstation:Network admin$ ls ./TEST
config.txt
workstation:Network admin$
```

A network engineer must copy the "config.txt" file from directory TEST to directory PROD. The copied file must also be renamed into "current.txt". Which command must be used to accomplish these tasks?

- A. cp ./PROD/current.txt ./TEST/config.txt
- B. cp ./TEST/current.txt ./PROD/config.txt
- C. cp ./PROD/config.txt ./TEST/current.txt
- D. cp ./TEST/config.txt ./PROD/current.txt

Answer: D

NEW QUESTION 380

- (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 384

- (Exam Topic 3)

A group of software developers wants to improve its collaboration with the operations team. The group wants to deliver release-ready code that merges code changes back to the main branch and runs the automated testing as often as possible. Which DevOps concept does this scenario represent?

- A. continuous delivery
- B. version control
- C. continuous integration
- D. continuous deployment

Answer: C

NEW QUESTION 388

- (Exam Topic 3)

```

1 import requests
2 from requests.auth import HTTPBasicAuth
3 BASE_URL = 'https://<IP ADDRESS or FQDN>'
4 AUTH_URL = '/dna/system/api/v1/auth/token'
5 TOKEN = '<TOKEN>'
6
7 headers = {'X-Auth-Token': TOKEN, 'Content-Type': 'application/json'}
8
9 DEVICES_COUNT_URL = '/dna/intent/api/v1/network-device/count'
10 DEVICES_URL = '/dna/intent/api/v1/network-device'
11 DEVICES_BY_ID_URL = '/dna/intent/api/v1/network-device/'
12
13 def devices_func(headers):
14     response = requests.get(BASE_URL + DEVICES_COUNT_URL,
15                             headers = headers, verify=False)
16     return response.json()['response']
17
18 def devices_test(headers, query_string_params):
19     response = requests.get(BASE_URL + DEVICES_URL, headers = headers,
20                             params = query_string_params, verify=False)
21     return response.json()['response']
22
23 def devices_info(headers, device_id):
24     response = requests.get(BASE_URL + DEVICES_BY_ID_URL + device_id,
25                             headers = headers, verify=False)
26     return response.json()['response']
27
28 print(devices_func(headers))
29 print(devices_test(headers, {}))
30 print(devices_test(headers, {'hostname': 'CSR1Kv-01.devnet.local'}))
31 response = devices_test(headers, {'platformId': 'C9500-40X'})
32 print(devices_info(headers, response[0]['id']))

```

Refer to the exhibit. An engineer prepares a script to automate workflow by using Cisco DNA Center APIs to display:
total count of devices

- list of the network devices
- information of one device with a hostname filter

What is displayed in the final step after the Python script is executed?

- A. information about a device of type C9500-40x.
- B. filtered results by the hostname and the platformId C9500-40X
- C. information about the test devices
- D. list of devices with platformId C9500-40x

Answer: B

NEW QUESTION 393

- (Exam Topic 3)

A company wants to automate the orders processed on its website using API. The network device that supports the solution must:

- support XML encoding
- support distributed transactions
- support YANG data models
- be support software redundancy

Which requirement prevents the use of RESTCONF for the solution?

- A. software redundancy
- B. YANG data models
- C. distributed transactions
- D. XML encoding

Answer: C

NEW QUESTION 394

- (Exam Topic 3)

Which standard supported by Cisco IOS XE and Cisco NX-OS is used for automating the configuration of multiple devices across a network?

- A. SNMP – YANG
- B. SYSLOG – YANG
- C. CLI – YANG
- D. NETCONF – YANG

Answer: D

NEW QUESTION 395

- (Exam Topic 3)

What is a benefit of a CI/CD pipeline for infrastructure?

- A. removes manual errors
- B. enables manual steps
- C. removes the need for operations
- D. provides variety for deployments

Answer: A

NEW QUESTION 396

- (Exam Topic 3)

What is a feature of XML compared to other data formats?

- A. It uses tags to define the structure.
- B. It uses parenthesis for key-value pairs.
- C. It uses indentation to define the structure.
- D. It uses namespaces for list representation.

Answer: A

NEW QUESTION 401

- (Exam Topic 3)

Which OWASP threat occurs when untrusted data is supplied as input to an interpreter as part of a command or query?

- A. broken authentication
- B. data exposure
- C. injection
- D. cross-site scripting

Answer: C

NEW QUESTION 405

- (Exam Topic 3)

An engineer needs to retrieve a list of locally available Firepower Threat Defense upgrade packages by using the Firepower Management Center REST API. The engineer uses a GET request with the URL:

/api/fmc_platform/v1/updates/upgradepackages/f413afeb-e6f6-75f4-9169-6d9bd49s625e

What does "f413afeb-e6f6-75f4-9169-6d9bd49s625e" represent?

- A. container UUID
- B. package UUID
- C. domain UUID
- D. object UUID

Answer: B

Explanation:

"GET upgradepackages Request Type: GET

Description: Retrieves a list of locally available Firepower Threat Defense upgrade packages, including major upgrades, maintenances release upgrades, and hotfixes.

URL: /api/fmc_platform/v1/updates/upgradepackages

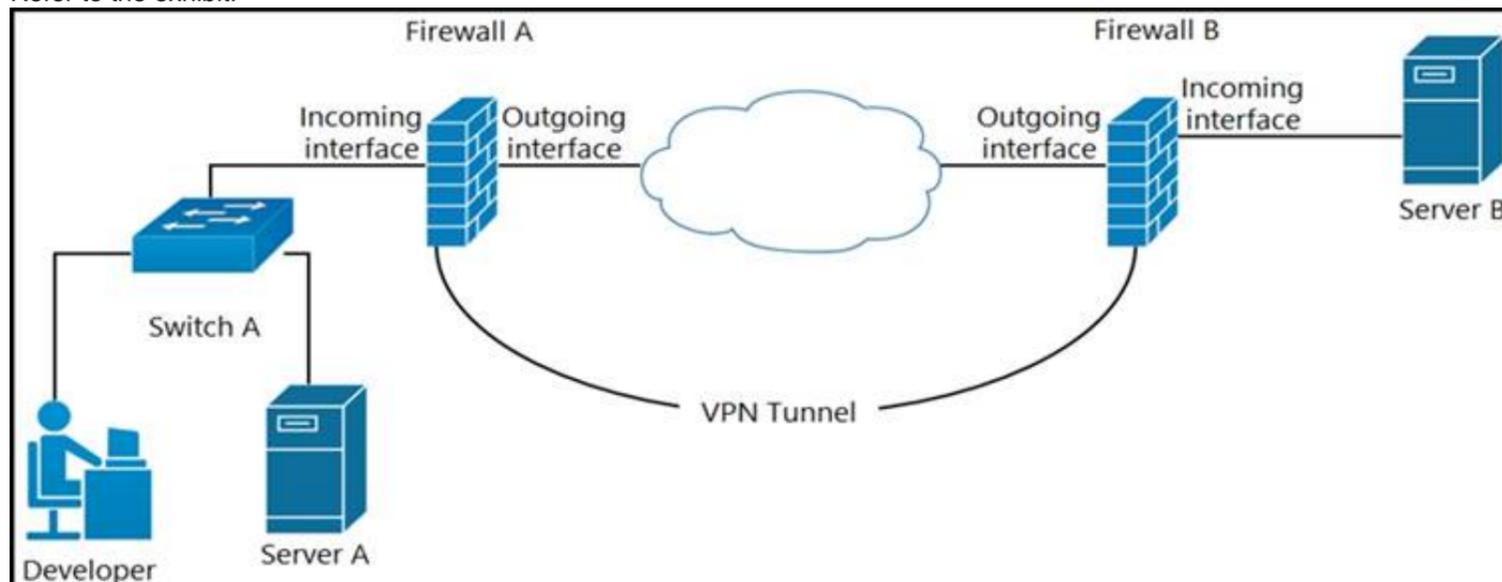
URL for GET by ID: /api/fmc_platform/v1/updates/upgradepackages/{package_UUID}" Source:

https://www.cisco.com/c/en/us/td/docs/security/firepower/640/api/REST/Firepower_Management_Center_RES

NEW QUESTION 410

- (Exam Topic 3)

Refer to the exhibit.



A developer can access the TLS REST API on server A, but cannot access the API on server B. The developer can ping server B. When the developer performs a packet capture on the TLS REST API port on server B, the capture shows that the packet arrived and the server responded. What causes the issue?

- A. Port 80 is blocked on the outgoing interface of firewall B.
- B. Port 443 is blocked on the outgoing interface of firewall A.
- C. Port 443 is blocked on the incoming interface of firewall B.
- D. Port 80 is blocked on the incoming interface of firewall A.

Answer: C

NEW QUESTION 414

- (Exam Topic 3)

An engineer needs to collect information about 20,000 Bluetooth clients using the Cisco Meraki API. The API returns only 1,000 results. One of the HTTP response headers has the data:

Link: [https://api.meraki.com/info/api/v0/networks/ABC/bluetoothClients?perPage=1000&startingAfter=1000>;rel="n](https://api.meraki.com/info/api/v0/networks/ABC/bluetoothClients?perPage=1000&startingAfter=1000>;rel=)

Which RFC is implemented by the API to apply the restriction?

- A. RFC 5988 – Web Linking
- B. RFC 5890 – Response Constraints
- C. RFC 5005 – Feed Paging and Archiving
- D. RFC 5446 – Content Limits

Answer: C

NEW QUESTION 416

- (Exam Topic 3)

Which protocol runs over TCP port 830?

- A. NETCONF
- B. Telnet
- C. RESTCONF
- D. HTTP

Answer: A

NEW QUESTION 418

- (Exam Topic 3)

Why would a developer compare a current version of code to a previous version?

- A. to provide the single source of truth
- B. to troubleshoot code failures
- C. to track who made a change
- D. to aid in collaboration

Answer: B

NEW QUESTION 419

- (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 421

- (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 426

- (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 428

- (Exam Topic 3)

Refer to the exhibit. Drag and drop the code snippets from the bottom onto the blanks in the Python script to retrieve a list of network devices from Cisco DNA Center. Not all options are used.

```
import requests
import json
from urllib3.exceptions import InsecureRequestWarning

requests.packages.urllib3.disable_warnings()

dna_center_url = "My_DNA_Center_URL"
authentication = ("dnacenteruser", "dnacenter_password")

def get_token ():
    url = "https:// " + dna_center_url + "/dna/system/api/v1/auth/token"
    response = requests.post(url, auth=authentication, verify=False)
    token = response.json()['Token']
    return token

def get_device_list():
    token = 
    url = "https:// " + dna_center_url + "dna/intent/api/v1/" + 
    header = {  : token, 'content-type' : 'application/json' }
    response = requests.get(url, headers=header)
    device_list = 
    print(json.dumps (device_list, indent=4))
if __name__ == "__main__":
    get_device_list()
```

- get_token()
- network-device
- x-auth-token
- response.json()
- response.xml
- Authorization

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
import requests
import json
from urllib3.exceptions import InsecureRequestWarning

requests.packages.urllib3.disable_warnings()

dna_center_url = "My_DNA_Center_URL"
authentication = ("dnacenteruser", "dnacenter_password")

def get_token ():
    url = "https:// " + dna_center_url + "/dna/system/api/v1/auth/token"
    response = requests.post(url, auth=authentication, verify=False)
    token = response.json()['Token']
    return token

def get_device_list():
    token = 
    url = "https:// " + dna_center_url + "dna/intent/api/v1/" + 
    header = {  : token, 'content-type' : 'application/json' }
    response = requests.get(url, headers=header)
    device_list = 
    print(json.dumps (device_list, indent=4))
if __name__ == "__main__":
    get_device_list()
```

- get_token()
- network-device
- x-auth-token
- response.json()
- response.xml
- Authorization

NEW QUESTION 430

- (Exam Topic 3)

POST /v1/meetings

Body Parameters

title
 string Required
 Meeting title. The title can be a maximum of 128 characters long.

agenda
 string
 Meeting agenda. The agenda can be a maximum of 2500 characters long.

password
 string
 Meeting password. Must conform to the site's password complexity settings. Read [password management](#) for details. If not specified, a random password conforming to the site's password rules will be generated automatically.

start
 string Required
 Date and time for the start of meeting in any [ISO 8601](#) compliant format. start cannot be before current date and time or after end. Duration between start and end cannot be shorter than 10 minutes or longer than 24 hours.

end
 string Required
 Date and time for the end of meeting in any [ISO 8601](#) compliant format. end cannot be before current date and time or before start. Duration between start and end cannot be shorter than 10 minutes or longer than 24 hours.

Refer to the exhibit. A bespoke meeting booking system must be integrated with Cisco Webex so that meetings are created automatically. Drag and drop the code from the bottom onto the box where the code is missing to create a sample meeting. Not all options are used.

```
import requests, json

[ ] = 'eyJhbGc ... yJbN8'

headers = {
    'Authorization': f'Bearer {token}',
    'Content-Type': 'application/json'
}

payload = {
    "title": "DevNet Webex Discussion",
    "password": "AGrtg1234",
    "start": "2020-11-10T15:00:00Z",
    "end": "2020-11-10T17:00:00Z",
    "enabledAutoRecordMeeting": False,
    "allowAnyUserToBeCoHost": False
}

response = requests.request(" [ ] ", f'{BASE_URL}/ [ ] ',
    headers=headers, data=json.dumps( [ ] ))
print(response.text.encode('utf8'))
```

- payload
- PUT
- token
- v1/meeting
- v1/meetings
- POST

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
import requests, json

token = 'eyJhbGc ... yJbN8'

headers = {
    'Authorization': f'Bearer {token}',
    'Content-Type': 'application/json'
}

payload = {
    "title": "DevNet Webex Discussion",
    "password": "AGrtgl234",
    "start": "2020-11-10T15:00:00Z",
    "end": "2020-11-10T17:00:00Z",
    "enabledAutoRecordMeeting": False,
    "allowAnyUserToBeCoHost": False
}

response = requests.request("POST", f'{BASE_URL}/v1/meetings',
    headers=headers, data=json.dumps(payload))
print(response.text.encode('utf8'))
```

payload	PUT	token
v1/meeting	v1/meetings	POST

NEW QUESTION 433

.....

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