Cisco

Exam Questions 200-901

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

NEW QUESTION 1
- (Exam Topic 2)
Refer to the exhibit.

```
#!/bin/bash
apt install nginx
export AVAILABLE_SITES_DIR = '/etc/nginx/sites-available'
export ENABLED_SITES_DIR = '/etc/nginx/sites_enabled'
cd /opt/nginx
cat sites.txt | while read site;
    do
        cp template.conf "$AVAILABLE_SITES_DIR/$site";
        ln -s "$AVAILABLE_SITES_DIR/$site"" $ENABLED_SITES_DIR';
        chown www-data:www-data "$AVAILABLE_SITES_DIR/$site";
    done
```

An engineer must configure a load balancer server. The engineer prepares a script to automate workflow by using Bash. The script install the nginx package, moves to the /optAtginx directory, and reads the sites M We (or further processing Based on the script workflow, which process is being automated within the loop by using the information mi sites txt?

A. creating a new Me Based on template .conf in the /etc/ngin/sites_enabled directory for each lie in the sites txt fil
B. and then changing the file execution permission.
C. creating a Me per each the in sites txt with the information in template con
D. creating a link for the previously created fil
E. and then changing the ownership of the created files
F. using the content of the file to create the template conf fil
G. creating a Iink from the created file to the/etc/nginx/files.enable
H. and then changing the file execution permissions.
I. using the information in the file to create a set of empty files in the /etchginx/sites_enabled directory and then assigning the owner of the file.

Answer: B

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

```
import requests
from requests.auth import HTTPBasicAuth
headers = {'Content-Type': 'application/json'}
base_url = 'https://10.1.2.3'
auth_url = '/dna/system/api/v1/auth/token'
devices_url = '/dna/intent/api/v1/network-device'

token = requests.post(
   base_url + auth_url, headers=headers,
   auth=HTTPBasicAuth(username="admin", password="DevNet123"))
data = token.json()

query_string_params = {'platformId': 'C9500-40X'}
response = requests.get(
    base_url + devices_url, headers=headers,
    params=query_string_params)
print(f'{response.code}')
```

A network engineer must manage the network devices. The engineer prepares a Python scripts to authenticate to the Cisco to DNA Center API and request a device list. The device request fails and returns errors code 401. Which action solves the problem?

A. Update the API UR
B. which matched the API endpoint for device list.
C. Send the request to another network in case there are reachability Issues.
D. Send the Authentication header In the request with a valid configuration.
E. Update the credentials that are already supplied and retry the request

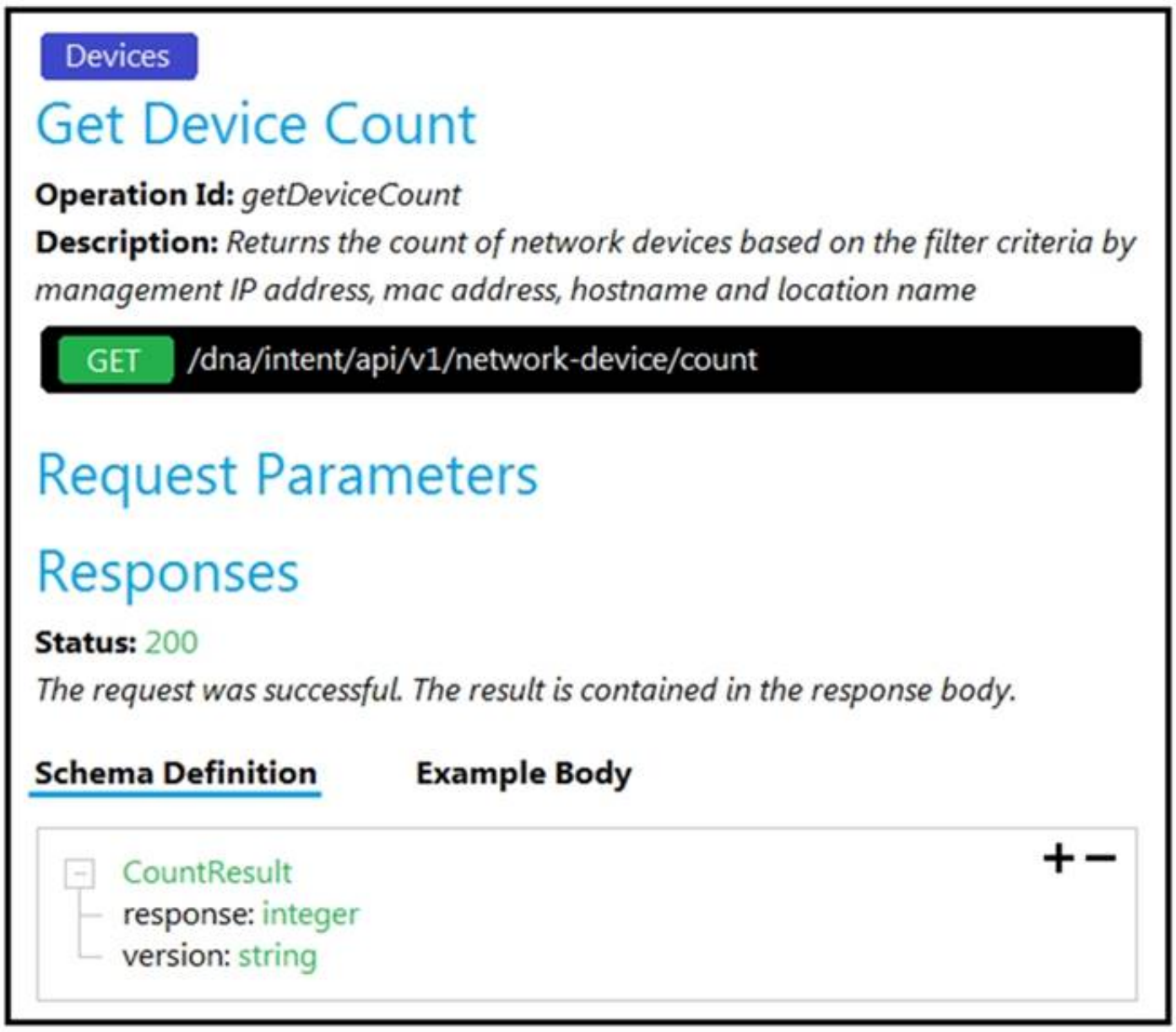
Answer: D

NEW QUESTION 3
- (Exam Topic 2)
Which application should be used to externally access all applications deployed in the same host machine with a single public IP address and port, when each application listens on different local ports?

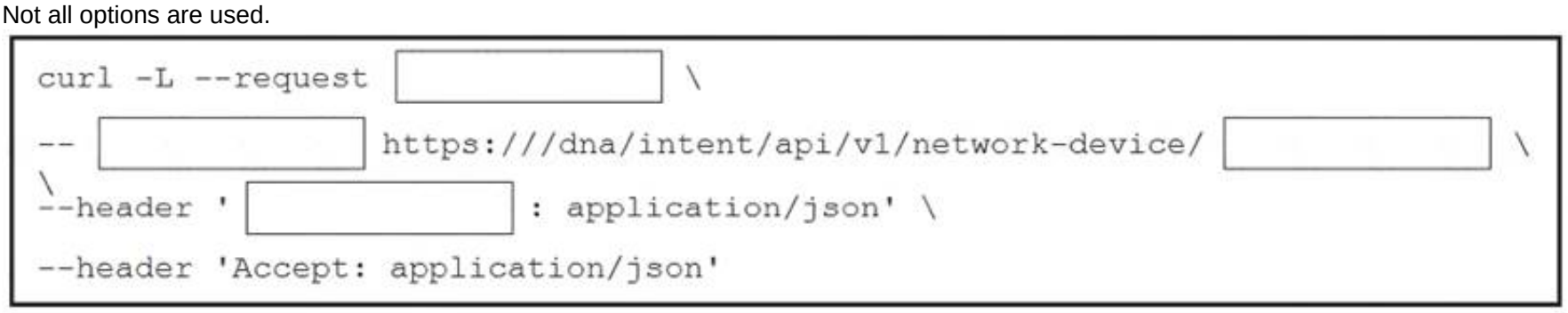
A. reverse proxy
B. load balancer
C. DNS
D. firewall

Answer: D

NEW QUESTION 4
- (Exam Topic 2)



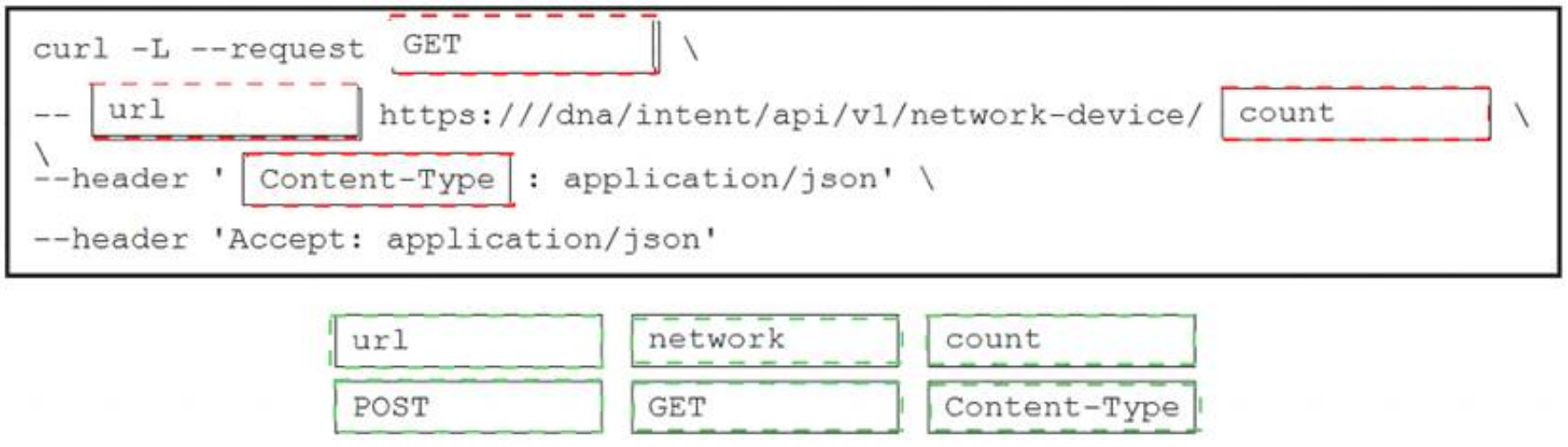
Refer to the exhibit. Drag and drop the code snippets from the bottom onto the blanks in the code to construct a request to find the Cisco DNA Center switch count. Not all options are used.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 5
- (Exam Topic 2)
Which protocol runs over TCP port 22?

A. SSH
B. HTTP

C. Telnet
D. NETCONF

Answer: A

NEW QUESTION 6
- (Exam Topic 2)
Drag and drop the Dockerfile instructions from the left onto the descriptions on the right. Not at options are used.

FROM ubuntu:12.04	informs Docker that the container listens on the specified network port(s) at runtime
VOLUME["/var/www","/var/log/apache2","/etc/apache2"]	creates a mount point with the specified name
RUN apt-get update && apt-get install –y –force-yes apache2	configures a container that runs as an executable
ENTRYPOINT["/usr/sbin/apache2ctl","-D","FOREGROUND"]	must be the first instruction in the Docker file
EXPOSE 1521	

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Diagram Description automatically generated

NEW QUESTION 7
- (Exam Topic 2)
Refer to the exhibit.

```
import requests
import json

BASE_URL = "https://<IP Address>"
FIRST_URL = "/dna/intent/api/v1/network-device"
SECOND_URL = "/dna/intent/api/v1/network-device-poller/cli/read-request"
THIRD_URL = "/dna/intent/api/v1/task/{task_id}"
FOURTH_URL = "/dna/intent/api/v1/file/{file_id}"

headers = {"X-Auth-Token": "TOKEN", "Content-Type": "application/json"}

params = {"platformId": "C9500-40X"}
response = requests.get(BASE_URL + FIRST_URL, headers=headers, params=params)
devices = []
for device in response.json()["response"]:
    devices.append(device["id"])

    payload = {
        "commands": ["show version", "show ip int brief"],
        "deviceUuids": devices,
        "timeout": 0,
    }
response = requests.post(BASE_URL + SECOND_URL, data=json.dumps(payload),
headers=headers)
task_id = response.json()["response"]["taskId"]

response = requests.get(BASE_URL + THIRD_URL.format(task_id=task_id),
headers=headers)
progress_json = json.loads(response.json()["response"]["progress"])
file_id = progress_json("fileId")

response = requests.get(BASE_URL + FOURTH_URL.format(file_id=file_id),
headers=headers)
file_json = response.json()

for cmd in file_json:
  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 8
- (Exam Topic 2)
Drag and drop the code from the bottom onto the box where the code is missing in the Python script to complete a function to return all the clients on a network by using the Cisco Meraki Dashboard API. Not all options are used.

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

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

client	application/json
application/xml	clients
X-Cisco-Meraki-API-Key	networks
Authorization: Bearer	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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

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

client	
application/xml	
Authorization: Bearer	

NEW QUESTION 9
- (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 10
- (Exam Topic 2)
Refer to the exhibit.

Generating Client ID and API Key:

- Log in to your AMP for Endpoints Console.
- Go to Accounts > Business Settings.
- Click Configure API Credentials under Features to generate the Client ID and secure API Key.

Once you have the API client ID and API key, you can make the API calls as follows:

```
https://<your_client_id>:<your_api_key>@<api_endpoint>
```

Alternatively you can use Basic HTTP Authentication. Base 64 encode the string ":", and send that prefixed with the string "Basic" as the authorization header. For instance, if your client_id was 1234, and your api_key was "atest", then it would be base64 encoded to "MTIzNDphdGVzdA==", and your header would be:

```
Authorization: Basic MTIzNDphdGVzdA==
```

The documentation outlines how to use credentials for the AMP API Which script successfully performs an API call using basic authentication?
A)

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_login_password = '10g1n_p@ssw0rd'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
   auth=(amp_client_id, amp_login_password))
print(request.json())
```

B)

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_api_key = 'a1b2c3d4-e5f6-g7h8-i9j0-k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url))
print(request.json())
```

C)

```
import requests
amp_auth_token = 'a1b2c3d4e5f6g7h8i9j0 k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
   auth=(amp_auth_token))
print(request.json())
```

D)

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_api_key = 'a1b2c3d4-e5f6-g7h8-i9j0-k112m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
   auth=(amp_client_id, amp_api_key))
print(request.json())
```

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

Answer: D

NEW QUESTION 10
- (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 14
- (Exam Topic 2)
What are two properties of private IP addresses? (Choose two.)

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

Answer: BD

NEW QUESTION 18
- (Exam Topic 2)
Before which process is code review performed when version control is used?

A. Branching code
B. Merge of code
C. Checkout of code
D. Committing code

Answer: D

NEW QUESTION 20
- (Exam Topic 2)
How do XML and JSON compare regarding functionality?

A. JSON natively supports arrays and XML does not natively support arrays.
B. XML provides support for mapping data structures into host languages than JSON.
C. XML provides more human readability than JSON.
D. JSON provides support for data types than XML.

Answer: A

NEW QUESTION 23
- (Exam Topic 2)
What is a benefit of test-driven development?

A. early customer involvement
B. increased code quality
C. faster releases that have minimal features
D. strict adherence to product requirements

Answer: D

NEW QUESTION 25
- (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 28
- (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 32
- (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 Catayst 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 at 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)
```

- selected_device.response.inventoryStatusDetail(device)
- api_session.devices.delete_device_by_id(device.id)
- api_session.devices.get_device_by_id(device.id)
- selected_device.response.inventoryStatusDetail
- api_session.devices.get_device_list().response

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Table Description automatically generated

NEW QUESTION 36
- (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.

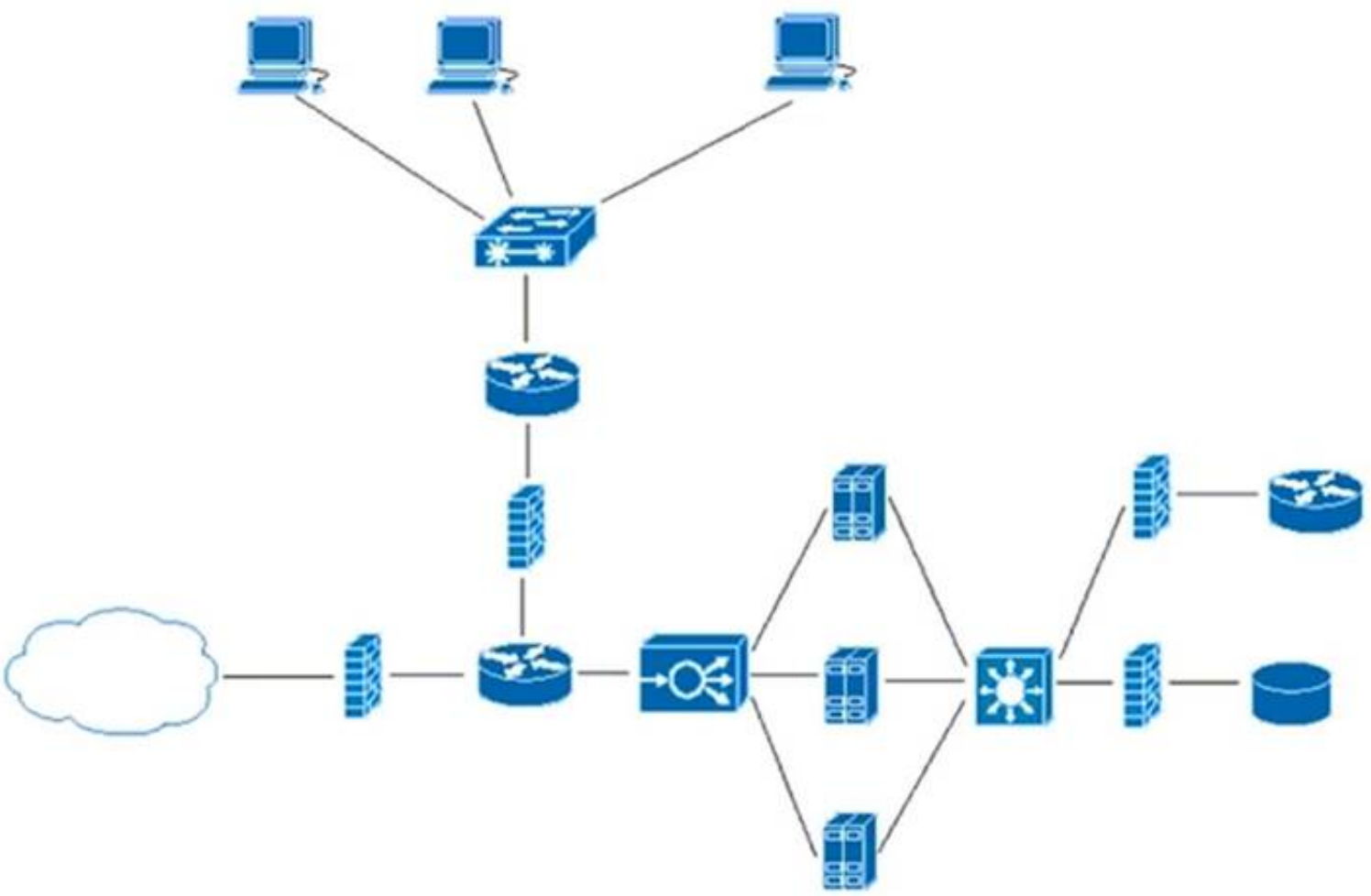
Answer: A

NEW QUESTION 39
- (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 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 41
- (Exam Topic 2)



Refer to the exhibit. What does the load balancer enable in the network topology?

A. hosted application to access Internet services
B. external requests to be routed to the application servers
C. workstations to access the Internet
D. application to access the database server

Answer: C

NEW QUESTION 45
- (Exam Topic 2)
Refer to the exhibit.

```
#import dnac sdk
from dnacentersdk import DNACenterAPI
#connection to dnac

username = 'user1'
password = 'secret'
base_url = 'https://192.168.1.1'

dnac = DNACenterAPI(username=username, password=password, base_url=base_url,
version='1.3.3', verify=False)

# Get list of ports on device using get all interfaces API call
port_list_1 = [item['portName'] for item in
dnac.devices.get_all_interfaces()['response']
                                    if 'da4606c3-63ad-4ed4-8f35-6bfec7c2df04' in
                                    item['deviceId']]

# Sort list items
port_list_1.sort()
# Check the number of ports on the device
print(f'The list of interfaces contains {len(port_list_1)} items.')

# Output
# The list of interfaces contains 38 items.


# Get list of interfaces using the get interface info by device id api call
port_list_2 = [item['portName'] for item in
    dnac.devices.get_interface_info_by_id('da4606c3-63ad-4ed4-8f35-
    6bfec7c2df04')['response']]

# Sort list items
port_list_2.sort()
# Check the number of ports on the device
print(f'The list of interfaces contains {len(port_list_2)} items.')

# Output
# The list of interfaces contains 54 items.
```

An engineer writes a Python script that uses two different API calls to query Cisco DNA Center for the number of interfaces on a device. The engineer notices that the two API calls produce different results. Why are fewer interfaces returned for the same device when the 'get_all_interfaces' API call is used?

A. times out
B. rate limit
C. pagination
D. invalid password

Answer: C

NEW QUESTION 46
- (Exam Topic 2)
A developer is creating a script to interact with a REST API service which requires basic authentication. The credentials are "devnet:391665405" and the Base64 encoding of the credentials is "GV2bmV0dXNlcjpDaXNj=". Which payload and header combination must be used for authentication?

A.
```
payload = {
    'Authorization' : 'Basic GV2bmV0dXNlcjpDaXNj=',
    'Content-Type' : 'application/json'
}
headers= {}
```

B.
```
payload = {}
headers= {
    'Authorization' : 'Basic GV2bmV0dXNlcjpDaXNj=',
    'Content-Type' : 'application/json'
}
```

C.
```
payload = {
    'Authorization' : 'Bearer GV2bmV0dXNlcjpDaXNj=',
    'Content-Type' : 'application/json'
}
headers= {}
```

D.
```
payload = {}
headers= {
    'Authorization' : 'Bearer GV2bmV0dXNlcjpDaXNj=',
    'Content-Type' : 'application/json'
}
```

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

Answer: B

Explanation:
https://developer.cisco.com/docs/epnm/#!how-to-authenticate/authorization

NEW QUESTION 47
- (Exam Topic 2)
Which Cisco platform provides organization-wide automation, security, policy enforcement, any agility across wired and wireless networks?

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

Answer: B

NEW QUESTION 48
- (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 50
- (Exam Topic 2)
Refer to the exhibit.

```
# base image
FROM alpine

# Install python and pip
RUN apk add --update py2-pip

# Install python modules needed by the python app
COPY requirements.txt /usr/src/app/
RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt

#copy local files for the app to run
COPY app.py /usr/src/app/
COPY templates/index.html /usr/src/app/templates/

EXPOSE 8080

#run the application
CMD ["python", "/usr/src/app/app.py"]
```

Which function does the EXPOSE line perform when building an image from this Dockerfile?

A. Local port 8080 of the container that launched with this docker image is accessible from co-hosted containers and external clients.
B. Local port 8080 is not reachable at all because no IP address is specified along with the EXPOSE command of the Dockerfile.
C. Local port 8080 is accessible from other containers running on the same docker host as the container that launched with this docker image.
D. Local port 8080 of the container that launched with this docker image is accessible to external clients.

Answer: C

Explanation:
By default, the EXPOSE instruction does not expose the container's ports to be accessible from the host. In other words, it only makes the stated ports available for inter-container interaction.
Whereas publishing a port using either -P or -p exposes it, exposing a port using EXPOSE or –expose does not publish it.
So, while exposed ports can only be accessed internally, published ports can be accessible by external containers and services.
https://www.whitesourcesoftware.com/free-developer-tools/blog/docker-expose-port/

NEW QUESTION 52
- (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 55
- (Exam Topic 2)
Refer to the exhibit.

Code:
```
import requests

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


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

        r = session.get(url)

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

        return r.json()

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


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

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

Which command needs to be placed on the box where the code is missing to output the value of page_jd in the Python 3.7 script?
A)
```
print(items['items']['page_id'])
```
B)
```
print(items.get('items').get('page_id'))
```
C)
```
print(items.get('items')[0].get('page_id'))
```
D)
```
print(items['items']['page_id'].keys())
```

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

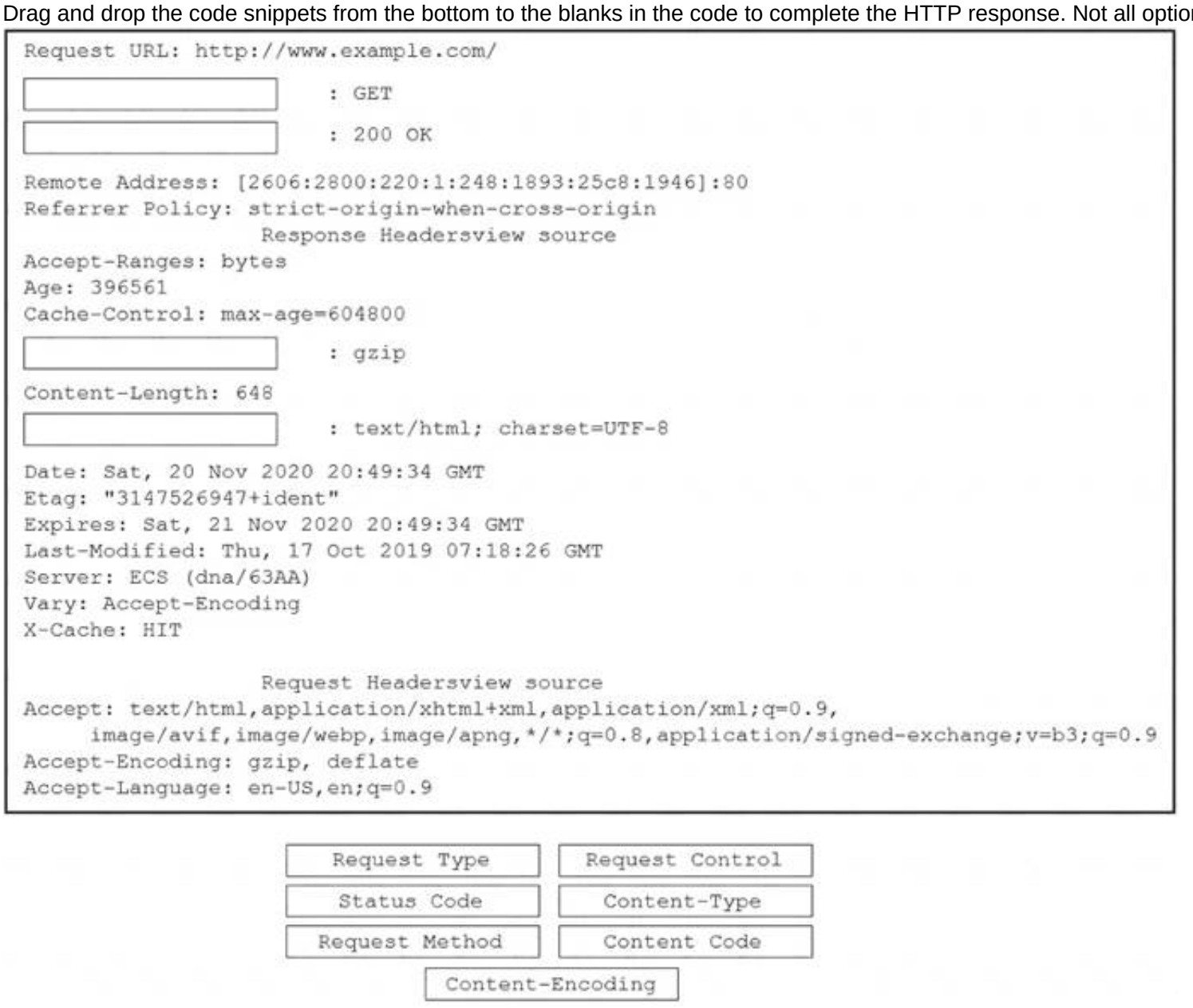
Answer: C

NEW QUESTION 58
- (Exam Topic 2)
Which tool is used to block all traffic to the domain by using a single API call?

A. Cisco ISE
B. Cisco Firepower
C. Cisco AMP
D. Cisco Umbrella

Answer: B

NEW QUESTION 63
- (Exam Topic 2)
Drag and drop the code snippets from the bottom to the blanks in the code to complete the HTTP response. Not all options are used.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated

NEW QUESTION 64
- (Exam Topic 2)
Refer to the exhibit.

A developer needs to automatically retrieve all of the messages of a Webex room with the roomId of HY2l2Y292cGFyazovL3Vz397748444YjU5NjAtNTk0ZJ0xMWVhLTk0Mj". Using the Webex API documentation shown, drag and drop the code snippets from

below onto the code to complete the Python script to list all of the messages in the room. Not all options are used.

A. Mastered
B. Not Mastered

Answer: A

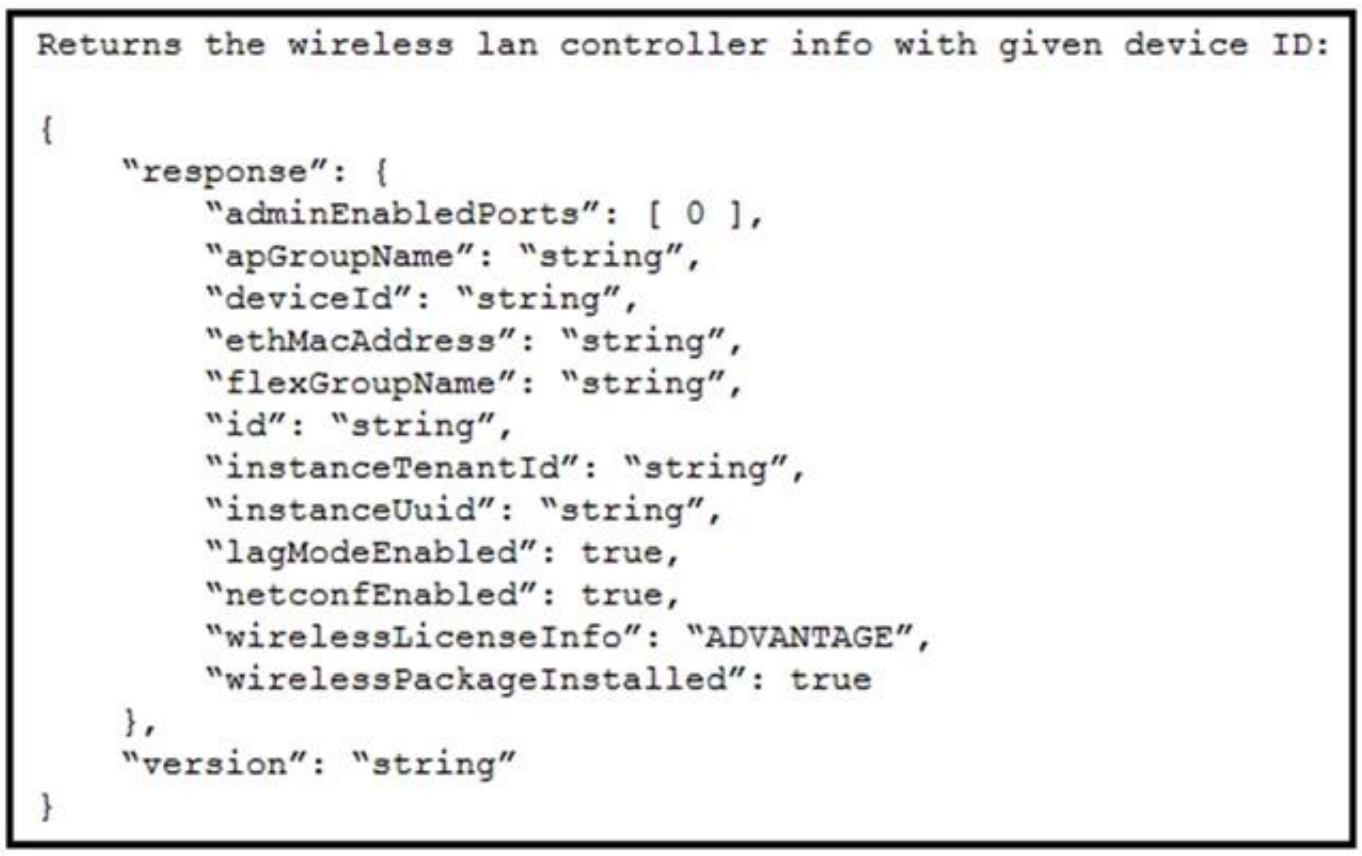
Explanation:
Graphical user interface Description automatically generated with medium confidence

NEW QUESTION 68
- (Exam Topic 2)
Which platform is used to programmatically create a space and invite users for collaboration?

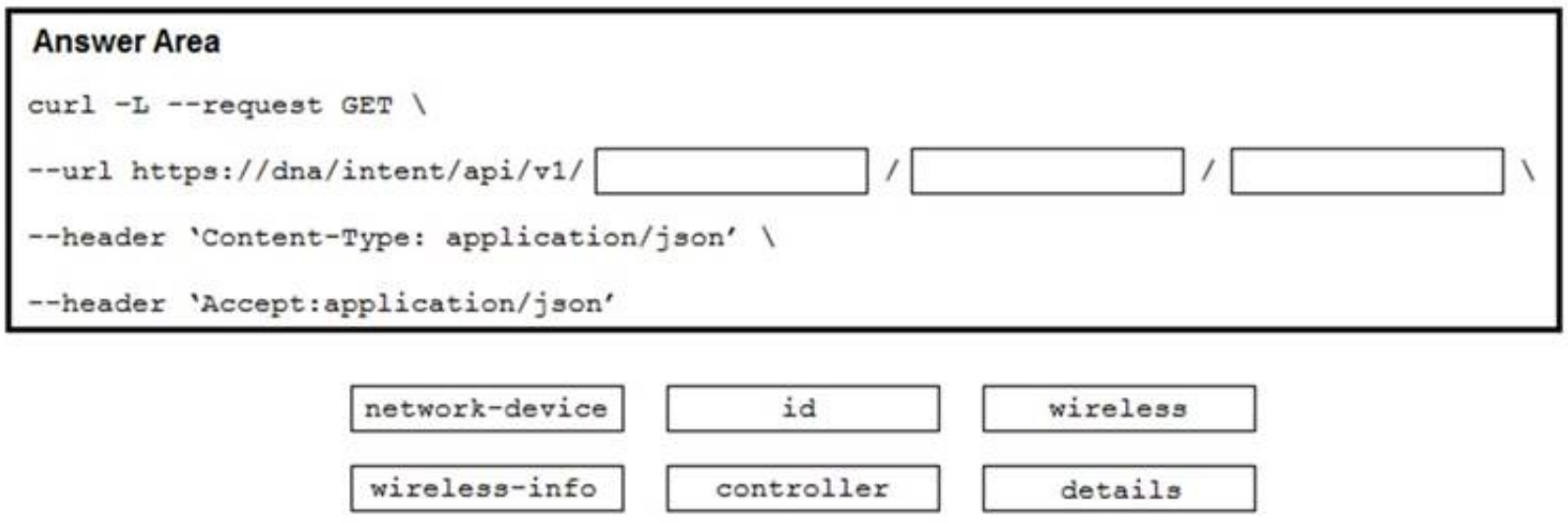
A. Cisco Intersight
B. Cisco Finesse
C. Cisco Webex
D. Cisco UCM

Answer: C

NEW QUESTION 73
- (Exam Topic 2)
Refer to the exhibit.



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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Diagram Description automatically generated

NEW QUESTION 77
- (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 80
- (Exam Topic 2)
Which advantage does the agile process offer compared to waterfall software development?

A. to view the full scope of end-to-end work
B. to have each phase end before the next begins
C. to fix any issues at the end of the development cycle
D. to add or update features with incremental delivery

Answer: D

NEW QUESTION 81
- (Exam Topic 2)
Refer to the exhibit.

```
FROM nginx

ARG DELAY="30"
ENV INITIAL_DELAY=${DELAY}

ENTRYPOINT ["/bin/sh"]

CMD ["-c", "/bin/sleep ${INITIAL_DELAY} && nginx -g
'daemon off;'"]
```

Which command, including arguments, is executed when the container starts?

A. /bin/sh -c "/bin/sleep 30 && nginx -g 'daemon off;'"
B. /bin/sh -c "/bin/sleep 10 && nginx -g 'daemon off;'"
C. /bin/bash -c "/bin/sleep 30 && nginx -g 'daemon off;'"
D. /bin/sh -c "/bin/sleep 30" && nginx -g 'daemon off;'

Answer: A

NEW QUESTION 84
- (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 88
- (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 93
- (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

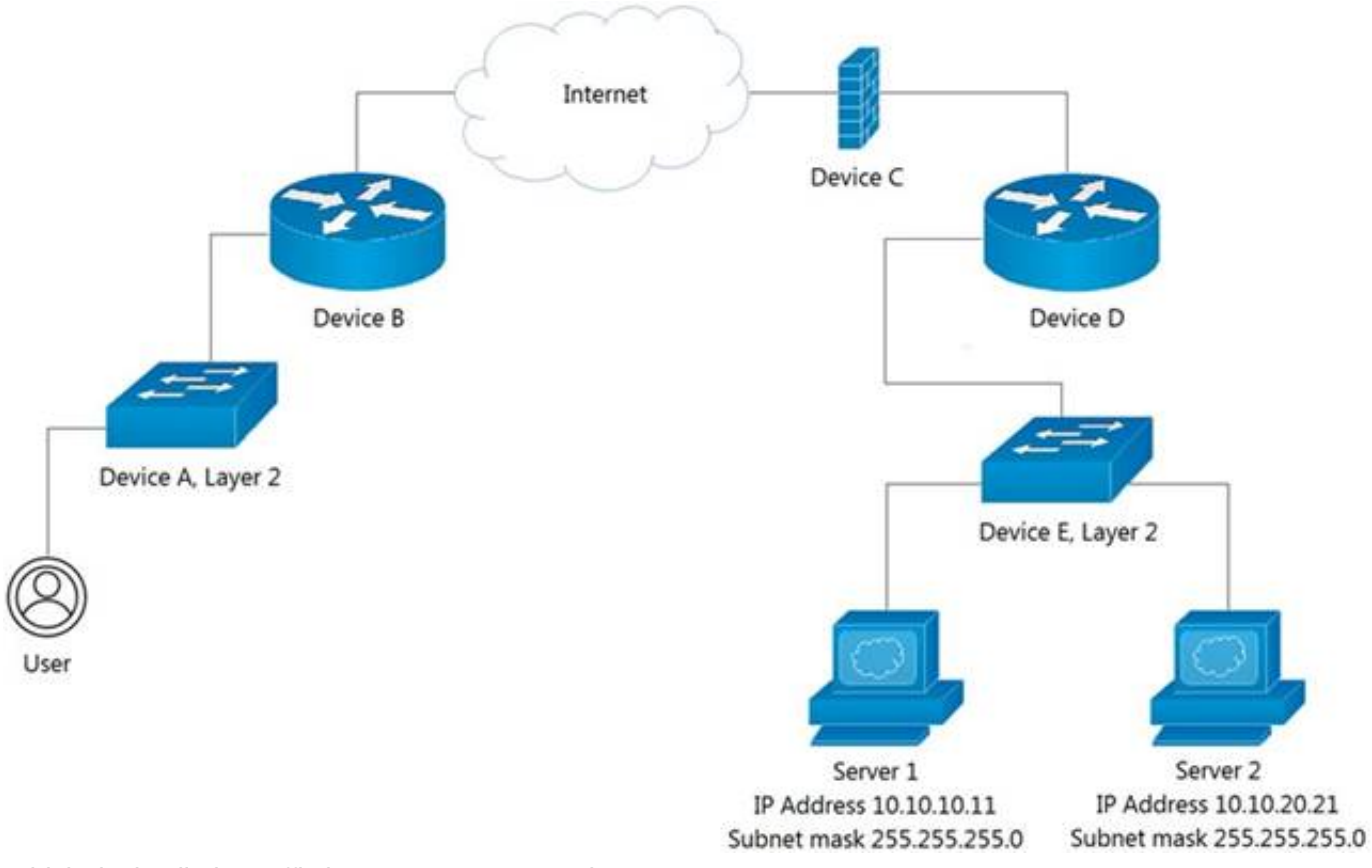
NEW QUESTION 97
- (Exam Topic 2)
What is a requirement when authenticating a RESTCONF API session with a router that runs Cisco IOS XE Software?

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

Answer: C

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

NEW QUESTION 99
- (Exam Topic 2)
Refer to the exhibit.



Which device limits traffic between server 1 and server 2?

A. Device B
B. Device C
C. Device D
D. Device E

Answer: D

NEW QUESTION 103
- (Exam Topic 2)
What is a difference between a synchronous API and an asynchronous API?

A. An asynchronous API can make offline calls while synchronous APIs do not have this capability.
B. Synchronous API calls are returned immediately while asynchronous calls do not guarantee an immediate response.
C. Synchronous API calls require an authentication header to be sent while asynchronous calls do not require authentication.
D. An asynchronous API can make a larger number of calls in a specified time period than a synchronous API.

Answer: B

Explanation:
Reference:
https://stackoverflow.com/questions/36213948/what-is-the-difference-between-asynchronous-calls-and-callback

NEW QUESTION 104
- (Exam Topic 2)
Refer to the exhibit.

```
1 #/bin/bash
2
3 curl https://ciscodevnet.com/devnet-0.13.tar.gz -o /tmp/devnet.tar.gz
4 tar -zxf /tmp/devnet.tar.gz
5 mkdir /tmp/devnet && pushd /tmp/devnet
6
7 ./configure && make && make install
8
9 systemctl enable devnet
10 systemctl start devnet
```

A network engineer works on a Cisco DevNet application that is available for download on the Cisco DevNet website. The engineer prepares a bash script to automate operations that relate to the application. Which workflow is being automated in the bash script?

A. compilation and configuration of the Cisco DevNet application so that it must be started manually
B. compilation, installation, and configuration of the Cisco DevNet application so that it starts automatically
C. compilation and installation of the Cisco DevNet application for an autonomous deployment model
D. installation and configuration of the Cisco DevNet application so that it starts manually

Answer: B

NEW QUESTION 109
- (Exam Topic 2)
Several teams at a company are developing a new CRM solution to track customer interactions with a goal of improving customer satisfaction and driving higher

revenue. The proposed solution contains these components:
• MySQL database that stores data about customers
• HTML5 and JavaScript UI that runs on Apache
• REST API written in Python
What are two advantages of applying the MVC design pattern to the development of the solution? (Choose two.)

A. to enable multiple views of the same data to be presented to different groups of users
B. to provide separation between the view and the model by ensuring that all logic is separated out into the controller
C. to ensure data consistency, which requires that changes to the view are also made to the model
D. to ensure that only one instance of the data model can be created
E. to provide only a single view of the data to ensure consistency

Answer: BD

NEW QUESTION 110
- (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, cookles=cookies)
C. pip install requests
D. import requests

Answer: D

NEW QUESTION 114
- (Exam Topic 2)
Which implementation creates a group of devices on one or more LANs that are configured to communicate as if they were attached to the same wire?

A. WLAN
B. VLAN
C. IPsec
D. HSRP

Answer: B

NEW QUESTION 117
- (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 118
- (Exam Topic 2)
What is a benefit of organizing into modules?

A. improves collaboration of the development team
B. makes it easier to deal with large and complex systems
C. enables the code to be broken down into layers
D. enables the inclusion of more programming languages in the code

Answer: B

Explanation:
From Wikipedia (https://en.wikipedia.org/wiki/Modular_programming) "Modular programming is closely related to structured programming and object-oriented programming, all having the same goal of facilitating the construction of large software programs and systems by decomposition into smaller pieces."

NEW QUESTION 120
- (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 125
- (Exam Topic 2)
A file that already exists in a local repository is updated. Which command must be executed to ensure that the changes in the file are included in the next Git commit?

A. git update
B. git merge
C. git add
D. git rebase

Answer: A

NEW QUESTION 130
- (Exam Topic 2)
What are two key capabilities of Cisco Finesse? (Choose two.)

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

Answer: BE

NEW QUESTION 133
- (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?

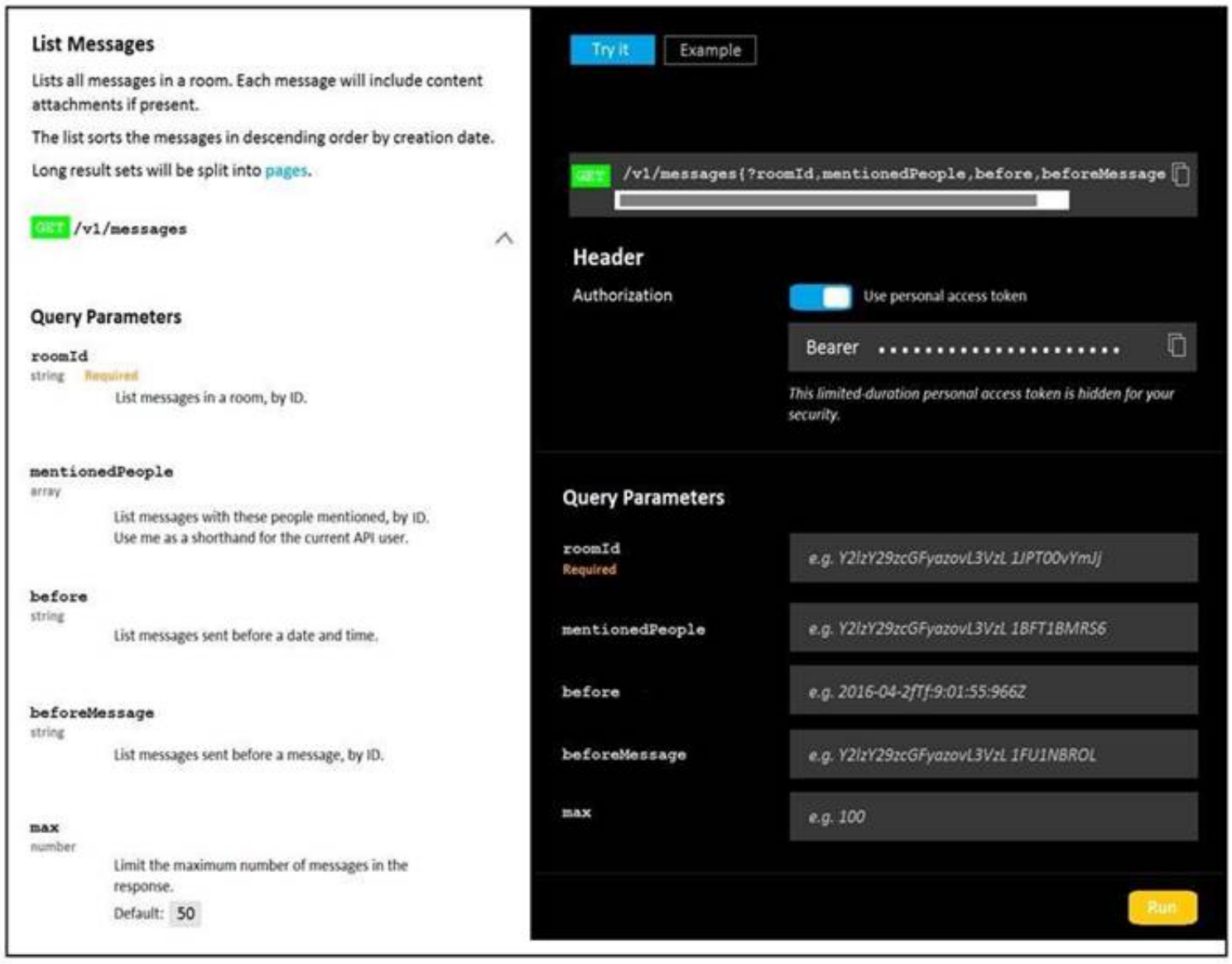
A. A.-100B.204C.302D.402

Answer: B

Explanation:

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

NEW QUESTION 138
- (Exam Topic 1)
Refer to the exhibit.




```
bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization:
Fj2zzzykEa091ic9GK2j8LtE1HklHklH6oRHPQdw1Pat60i7ndtHHnWzL2b5pqMg14Kk_B9EI59isacLy7-
NarA02n9H-tGgt-SxQ39iDejgcs" -i -X POST -d "{ \"roomId\":
\"Y2geK53sjEknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QmK9LQZsP0G4\"
, \"text\": \"test2\" }" https://api.ciscospark.com/v1/messages

HTTP/1.1 401 Unauthorized
Via: 1.1 linkerd
TrackingID: ROUTER_5E0FDC8C-EB6F-01BB-00EF-806BF1BD00EF
Date: Sat, 04 Jan 2020 00:30:04 GMT
Server: Redacted
Content-Length: 267
Content-Type: application/json
Strict-Transport-Security: max-age=63072000; includeSubDomains; preload

{"message":"The request requires a valid access token set in the Authorization request
header.","errors":[{"description":"The request requires a valid access token set in the
Authorization request
header."}],"trackingId":"ROUTER_5E0FDC8C-EB6F-01BB-00EF-806BF1BD00EF"}

bash-3.2$
```

A developer is troubleshooting an API with the given API with the given API documentation and cURL command. What is the cause of this problem?

A. The user is not allowed to post massages from their account
B. The request body is missing or incomplete
C. The API token specified is expired
D. The authorization header is missing or incomplete

Answer: C

NEW QUESTION 143
- (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. Delimeter for multiple CLI commands is a space followed by a semicolon. Configuration commands must be in a fully qualified form.

Returns:

- string: JSON-formatted output of show commands.

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

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

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

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

Answer: AC

Explanation:

Reference:
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_

NEW QUESTION 144
- (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 145
- (Exam Topic 1)
Fill in the blanks to complete the statement.

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

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Solution as below

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

NEW QUESTION 146
- (Exam Topic 1)
Which API is used to obtain data voicemail ports?

A. Finesse gadgets
B. Cisco Unified Communications manager
C. Webex devices
D. Webex teams

Answer: B

Explanation:
Cisco Unified Communications Manager (CUCM) provides API access to data management, call management, and voicemail integration. Source: Cisco DevNet Fundamental Course: https://developer.cisco.com/certification/fundamentals/

NEW QUESTION 150
- (Exam Topic 1)
What is a function of the default gateway in a network?

A. to drop traffic that is destined to the default gateway
B. to drop traffic that is not destined to the default gateway
C. to forward traffic to the same subnet
D. to forward traffic to different subnets

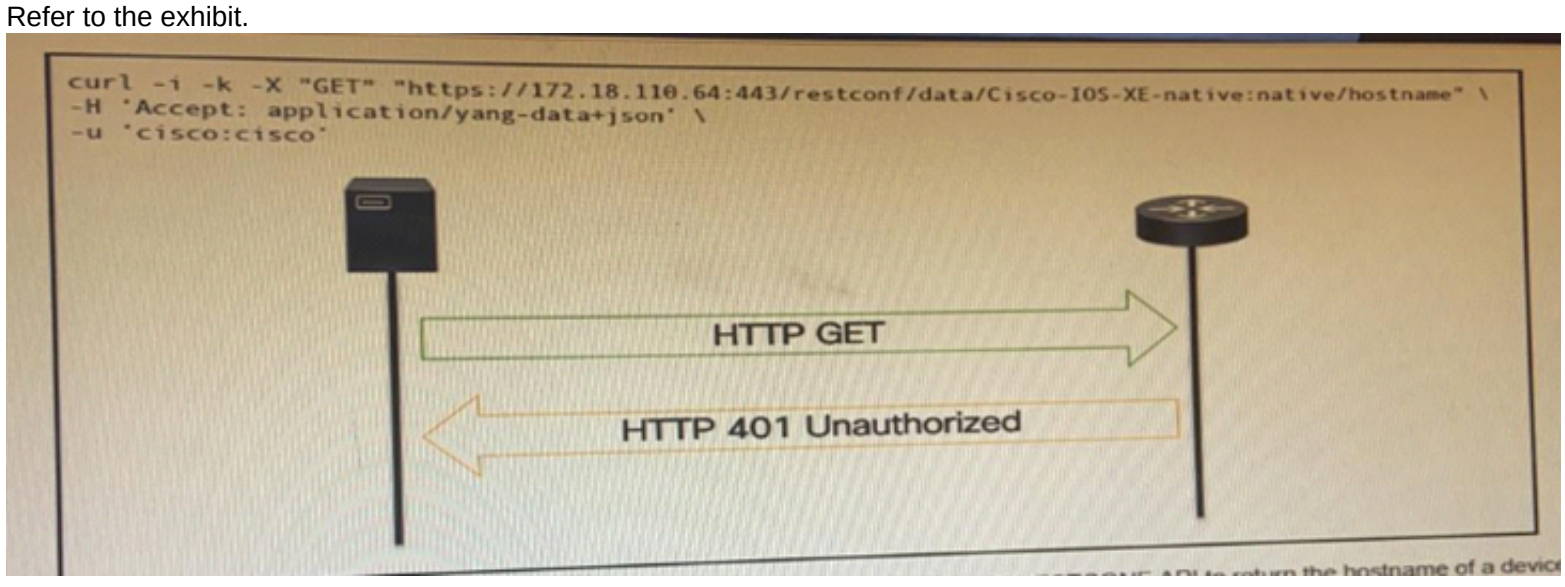
Answer: D

NEW QUESTION 155
- (Exam Topic 1)
What are two benefit of managing network configuration via APIs? (Choose two.)

A. configuration on devices becomes less complex
B. more security due to locking out manual device configuration
C. increased scalability and consistency of network changes
D. eliminates the need of legacy management protocols like SNMP
E. reduction in network changes performed manually

Answer: CE

NEW QUESTION 158
- (Exam Topic 1)
Refer to the exhibit.



An administrator attempts to perform a GET using the Cisco IOS XE RESTOCNF API to return the hostname of a device. The sequence diagram illustrated the HTTP message observed. Which change to the API request resolves the issue?

A. Add Content-Type HTTP header with 'application/yang-data+json' using –H ‘Content-Type: application/yang-data+json’.
B. Use -u cisco: cisco instead of -u ‘cisco: cisco'.
C. Change the request method from -X "GET” to- X’ POST”.
D. Remove the -H ’Accept: application/yang-data^/son’ HTTP header because it is not required.

Answer: B

NEW QUESTION 159
- (Exam Topic 1)
Refer to the exhibit.

```
module ex-ethernet {
     namespace "http://example.com/Ethernet";
     prefix "eth";
     import ietf-interfaces {
       prefix if;
     }
     augment "/if:interfaces/if:interface" {
       when "if:type = 'ethernetCsmacd'";
       container ethernet {
         must "../if:location" {
           description
             "An Ethernet interface must specify the physical location of the ethernet hardware.";
         }
         choice transmission-params {
           case auto {
             leaf auto-negotiate {
               type empty;
             }
           }
           case manual {
             leaf duplex {
               type enumeration {
                 enum "half";
                 enum "full";
               }
             }
             leaf speed {
               type enumeration {
                 enum "10Mb";
                 enum "100Mb";
                 enum "1Gb";
                 enum "10Gb";
               }
             }
           }
         } // other ethernet specific params...
       }
     }
```

What is represented in this YANG module?

A. interface management
B. topology
C. BGP
D. OpenFlow

Answer: A

NEW QUESTION 160
- (Exam Topic 1)
Drag and drop the functionalities from the left onto correct networking devices on the right.

ports are different broadcast domain by default	Firewall
ports can be in the same broadcast domain	Load Balancer
uses traffic inspection to make routing decisions	Router
blocks networks traffic by default	Switch

A. Mastered
B. Not Mastered

Answer: A

Explanation:

1 – D, 2 – C, 3 – A, 4 – B
Reference: https://geek-university.com/ccna/broadcast-domain-explained/

NEW QUESTION 165
- (Exam Topic 1)
Which action does the Git command git merge allow the development to perform?

A. Combine multiple sequence of commits into one unified history.
B. Push changes to the remote repository
C. Switch between branches
D. Create, list, rename, and delete branches

Answer: A

Explanation:
Reference: https://www.atlassian.com/git/tutorials/using-branches/git-merge

NEW QUESTION 170
- (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 172
- (Exam Topic 1)
When using the Bash shell, how it the output of the devnet command saved to a tile named “output.txt”?

A. devnet & output.txt
B. devnet > output.txt
C. devnet < output.txt
D. devnet I output.txt

Answer: B

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

NEW QUESTION 174
- (Exam Topic 1)
Which service provides a directory lookup for IP addresses and host names?

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

Answer: A

NEW QUESTION 178
- (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.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2
MmQ3NGM5YzE5ZTliLmYzMCIsImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraX
N371274739.zhK5LPQd501ZUpZI0lH_qrgOXttlNbxSFFF7JOEtRIs'
}
response = requests.request([          ], url,
headers = [          ], data = [          ])
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.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2
MmQ3NGM5YzE5ZTliLmYzMCIsImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraX
N371387657.zhK5LPQd501ZUpZl0IH_qrgOXttlNbxSFFF7JOEtRIs'
}
response = requests.request( "GET"                    , url,
headers =  headers                    , data =  payload                    )
print(response.text.encode('utf8'))
```

NEW QUESTION 180
- (Exam Topic 1)
Drag and drop the element of the Finesse API on the left onto the description of its functionally on the right.

User	Represents a skill group in Unified CCE.
Dialog	Represents the current state of the system.
Media	Represents an agent, supervisor or administrator.
Queue	Represents a group of users.
Team	Represents a call and the participants if the media type is voice.
SystemInfo	Sends client-side logging to the Finesse Server.
ClientLogs	Represents a user's state in a non-voice Media Routing Domain.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
1 – D, 2 – F, 3 – A, 4 – E, 5 – B, 6 – G, 7 - C

NEW QUESTION 185
- (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 186
- (Exam Topic 1)
A Company is looking for cloud deployment which will use the on-premise infrastructure, is user self-service, and easy to scale. Which cloud solution should be selected for these requirements?

A. multi
B. public
C. private
D. hybrid

Answer: C

NEW QUESTION 188
- (Exam Topic 1)
Refer to the exhibit.

```
$ diff -u5 fish.py cat.py
--- fish.py     2020-01-02 09:41:02.840000000 +0100
+++ cat.py      2020-01-02 09:41:06.8859999800 +0100
@@ -160,11 +160,12 @@

     @single_request_timeout.setter
     def single_request_timeout(self, value):
         """The timeout (seconds) for a single HTTP REST API request."""
         check_type(value, int, optional=True)
-        assert value is None or value > 0
+        if value is not None and value <= 0:
+            raise ValueError("single_request_timeout must be positive integer")
         self._single_request_timeout = value


     @property
     def wait_on_rate_limit(self)
         """Automatic rate-limit handling.
```

The output of a unified diff when comparing two versions of a python script is shown. Which two “single_request _timeout ()”

A.

file: cat.py

```
160
161     @single_request_timeout.setter
162     def single_request_timeout(self, value):
163         """The timeout (seconds) for a single HTTP REST API request."""
164         check_type(value, int, optional=True)
165         assert value is None or value > 0
166         if value is not None and value <= 0:
167             raise ValueError("single_request_timeout must be positive integer")
168         self._single_request_timeout = value
169
```

B.

file: fish.py

```
160
161     @single_request_timeout.setter
162     def single_request_timeout(self, value):
163         """The timeout (seconds) for a single HTTP REST API request."""
164         check_type(value, int, optional=True)
165         assert value is None or value > 0
166         self._single_request_timeout = value
167
```

C.

file: cat.py

```
160
161     @single_request_timeout.setter
162     def single_request_timeout(self, value):
163         """The timeout (seconds) for a single HTTP REST API request."""
164         check_type(value, int, optional=True)
165         if value is not None and value <= 0:
166             raise ValueError("single_request_timeout must be positive integer")
167         self._single_request_timeout = value
168
169
```

D.

file: fish.py

```
160
161     @single_request_timeout.setter
162     def single_request_timeout(self, value):
163         """The timeout (seconds) for a single HTTP REST API request."""
164         check_type(value, int, optional=True)
165         self._single_request_timeout = value
```

E.

file: cat.py

```
172
173     @single_request_timeout.setter
174     def single_request_timeout(self, value):
175         """The timeout (seconds) for a single HTTP REST API request."""
176         check_type(value, int, optional=True)
177         if value is not None and value <= 0:
178             raise ValueError("single_request_timeout must be positive integer")
179         self._single_request_timeout = value
180
```

F. Option A
G. Option B
H. Option C
I. Option D
J. Option E

Answer: BC

NEW QUESTION 192
- (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 196
- (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 198
- (Exam Topic 1)
Users cannot access a webserver and after the traffic is captured, the capture too* shows an ICMP packet that reports "communication administratively prohibited"
What Is the cause of this webserver access Issue?

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

Answer: A

NEW QUESTION 200
- (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

A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 205
- (Exam Topic 1)
Which principle is a value from the manifesto for Agile software development?

A. adhering to a plan over responding to requirements
B. detailed documentation over working software
C. processes and tools over teams and inter actions
D. customer collaboration over contract negotiation

Answer: D

Explanation:
Reference: https://www.cisco.com/c/dam/global/en_hk/solutions/collaboration/files/agile_product_development.pdf

NEW QUESTION 209
- (Exam Topic 1)
Which type of HTTP method is used by the Meraki nad webex teams APIs to send webhook notifications?

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

Answer: D

Explanation:
Reference: https://meraki.cisco.com/blog/tag/alerts/

NEW QUESTION 211
- (Exam Topic 1)
The project is migrated to a new codebase, the "old_project" directory must be deleted. The directory has multiple read-only files, and it must be deleted recursively without prompting for confirmation. Which bash command must be used?

A. rm -rf old_project
B. rm -r old_project
C. rmdir -p old_project
D. rmdir old_project

Answer: A

NEW QUESTION 214

- (Exam Topic 1)
Refer to the exhibit.

What caused the error in this API request?

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

Answer: D

NEW QUESTION 219
- (Exam Topic 1)
What are two advantages of the Model-view-controller software design pattern? (Choose two.)

A. simplifies network automation
B. allows for multiple views of the same model
C. makes code easier to deploy using CI/CD pipelines
D. reduces need for error handling
E. separates responsibilities of the code, which makes future modifications easier

Answer: BE

NEW QUESTION 221
- (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 226
- (Exam Topic 1)
Refer to the exhibit.

URL: https://<ASA_IP>/api/access/global/rules
Method: POST
Payload:

```
{
   "destinationAddress": {
     "kind": "IPv4Address",
     "value": "10.1.1.1"
   },
   "remarks": [ ],
   "active": true
   "permit": true,
   "sourceAddress": {
     "kind": "IPv4Address",
     "value": "192.168.1.1"
   }
}
```

Response Status Code: 400 Bad Request

{"messages":[{"level":"Error","code":"JSON-PARSE-ERROR","details":
"Unexpected character ('\"' (code 34)):

What caused the error in this API request?

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

Answer: D

NEW QUESTION 228
- (Exam Topic 1)
What is a tenet of test-driven development?

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

Answer: C

NEW QUESTION 233
- (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 238
- (Exam Topic 1)
Refer to the exhibit.

List Rooms

List rooms.
The `title` of the room for 1:1 rooms will be the display name of the other person.
By default, lists rooms to which the authenticated user belongs.
Long result sets will be split into pages.

`GET` `/v1/rooms`

Query Parameters

Name	Description
`teamId` string	List rooms associated with a team, by ID.
`type` string	List rooms by tape. *Possible values: direct, group*
`sortBy` string	Sort results. *Possible values: id, lastactivity, created*
`max` number	Limit the maximum number of rooms in the response. Default: 100

Fill in the blank to complete the query parameter and value so that the result set is returned in reverse chronological order (most recent first) based on when message were entered.

HTTP GET /v1/rooms _____

A. Mastered
B. Not Mastered

Answer: A

Explanation:

HTTP GET /v1/rooms ?sortBy=lastactivity

NEW QUESTION 243
- (Exam Topic 1)
A function my_func() returns True when it executes normally. Which python snippet tests my_func()?

```
def test_func(self):
    self.assertTrue(my_func())
```

```
def test_func(self):
    self.assertRaises(my_func())
```

```
def test_func(self):
    self.assertEqual(my_func(), '{true}')
```

```
def test_func(self):
    self.assertFalse(my_func())
```

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

Answer: B

NEW QUESTION 248
- (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 251
- (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 254
- (Exam Topic 1)
What is the outcome of executing this command?
git clone ssh://john@exmaple.com/path/to/my-project_git

A. Creates a local copy of a repository called “my project”
B. Creates a copy of a branch called “my project”
C. Initiates a new Git repository called “my project”
D. Creates a new branch called “my project”

Answer: A

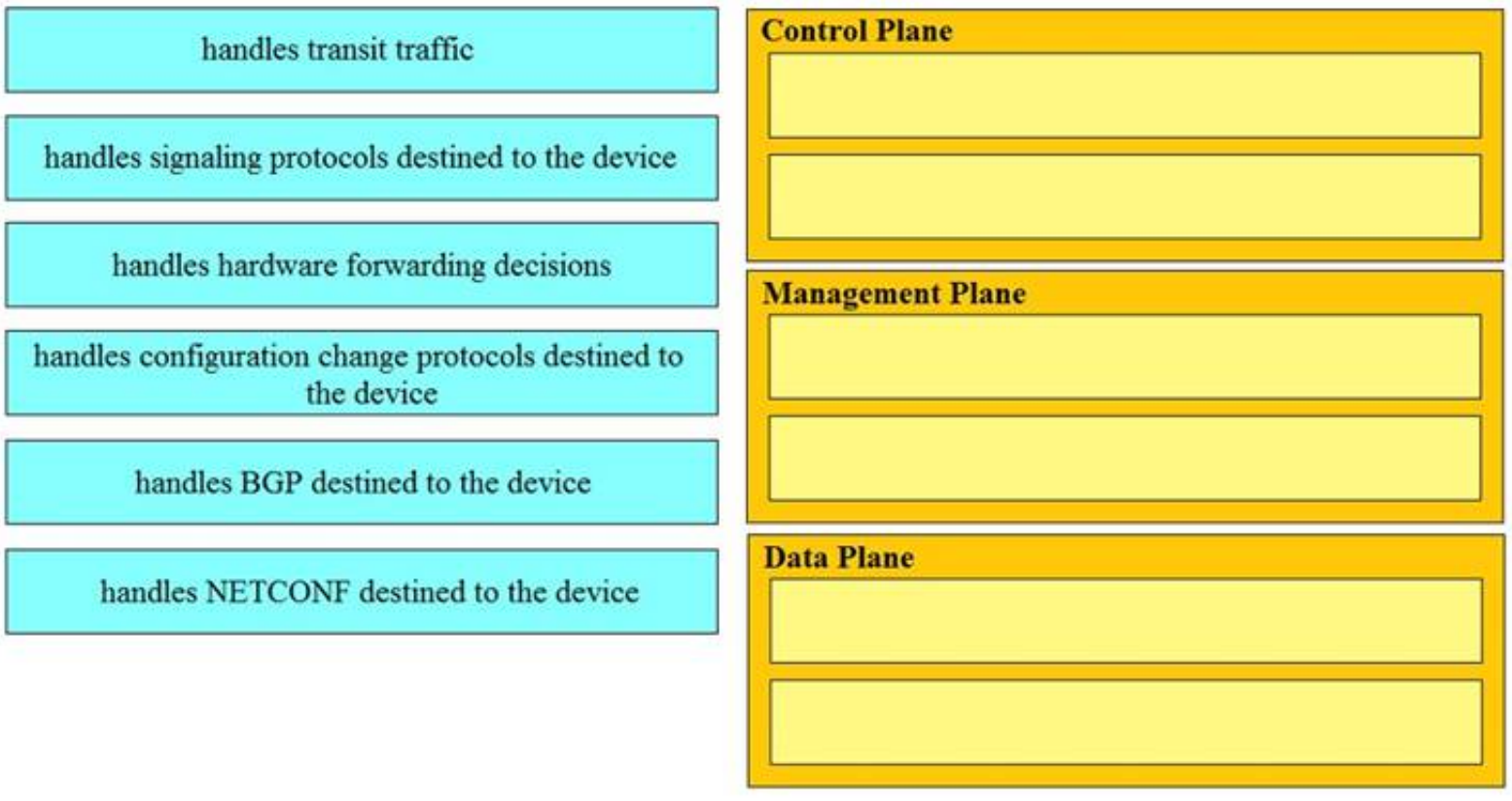
Explanation:
Reference: https://www.atlassian.com/git/tutorials/setting-up-a-repository/git-clone

NEW QUESTION 259
- (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

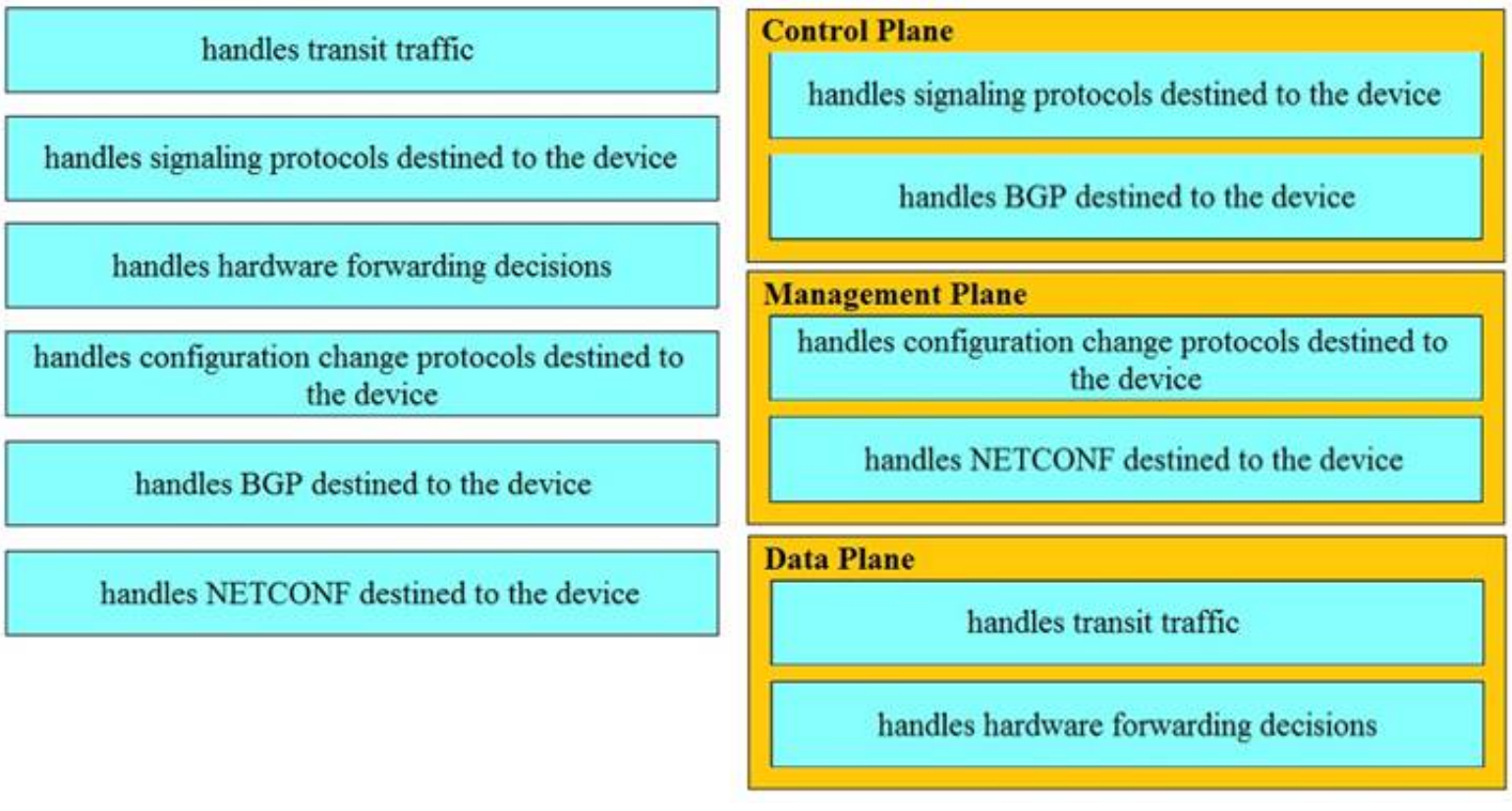
NEW QUESTION 261
- (Exam Topic 1)
Drag and drop the function on the left onto the type of plane that handles the function on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 263
- (Exam Topic 1)
What are the two purposes for using a VLAN in a network? (Choose two)

A. It is used to create the routing table.
B. It creates a collection of MAC addresses.
C. It is used for VM network traffic.
D. It segments a network.
E. It creates a broadcast domain.

Answer: DE

NEW QUESTION 265
- (Exam Topic 1)
Which two statements describe the advantages of using a version control system? (Choose two.)

A. It allows for branching and merging so that different tasks are worked on in isolation before they are merged into a feature or master branch.
B. It allows multiple engineers to work against the same code and configuration files and manage differences and conflicts.
C. It provides tooling to automate application builds and infrastructure provisioning.
D. It allows developers to write effective unit tests.
E. It provides a system to track User Stories and allocate to backlogs.

Answer: AB

NEW QUESTION 268
- (Exam Topic 1)
Which type of threat occur when an attacker can send hostile data to an interpreter within an application?

A. Cross-site scripting
B. Sensitive data exposure
C. Broken authentication
D. Injection

Answer: D

Explanation:
Reference: https://owasp.org/www-project-top-ten/OWASP_Top_Ten_2017/Top_10-2017_A1-Injection

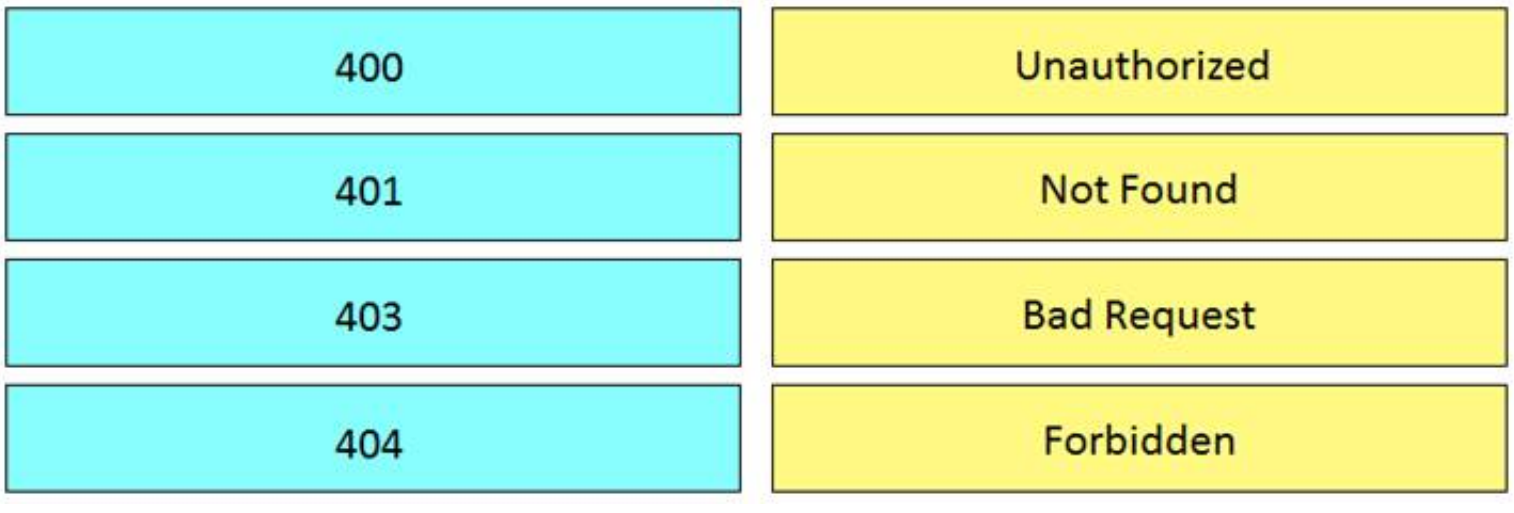
NEW QUESTION 273
- (Exam Topic 1)
Which two encoding formats do YANG interfaces support?

A. JSON
B. XML
C. XHTML
D. Plain text
E. BER

Answer: AB

Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/171/b_171_programmability_cg/model_d

NEW QUESTION 274
- (Exam Topic 1)
Drag and drop the HTTP status codes from the left onto the correct descriptions on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
1 – B, 2 – D, 3 – A, 4 – C
Reference:
https://www.cisco.com/c/en/us/support/docs/security/web-security-appliance/118217-troubleshoot-wsa-00.html

NEW QUESTION 279
- (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 282
- (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 285
- (Exam Topic 1)
On which network plane is routing protocol traffic handled?

A. data plane
B. management plane
C. authentication plane
D. control plane

Answer: D

Explanation:

Reference: https://tools.cisco.com/security/center/resources/understanding_cppr

NEW QUESTION 289
- (Exam Topic 1)
Refer to the 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

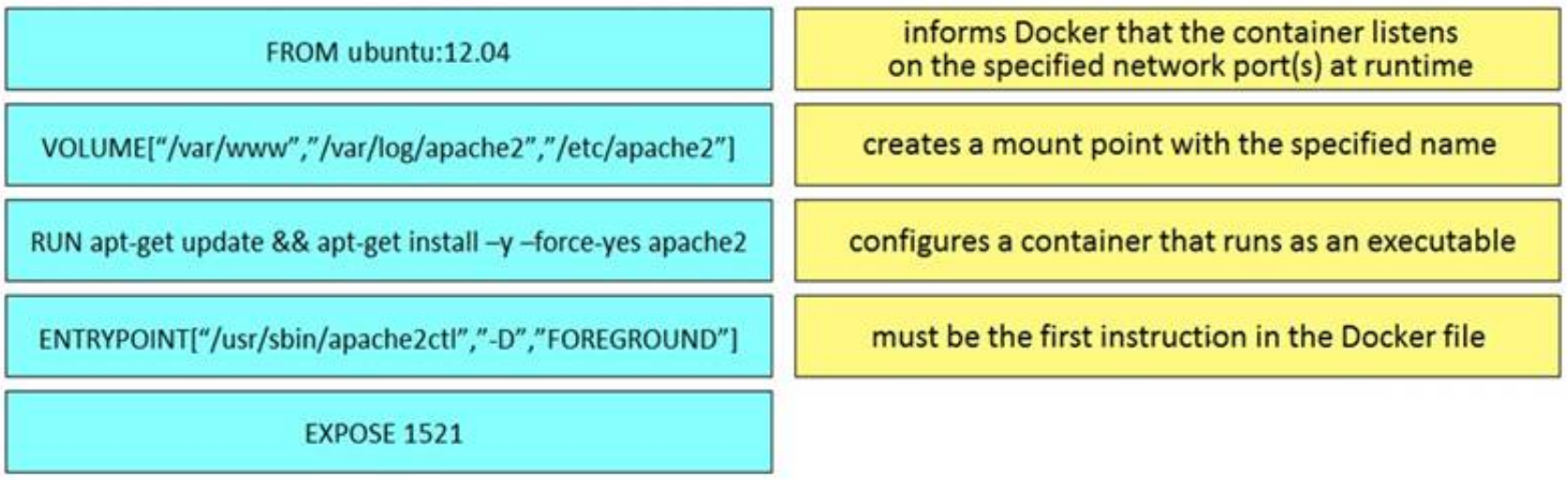
NEW QUESTION 292

- (Exam Topic 1)
Which platform is run directly using a hypervisor?

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

Answer: C

NEW QUESTION 294
- (Exam Topic 1)
Drag and drop the Docker file instructions from the onto correct descriptions on the right. Not all options are used.

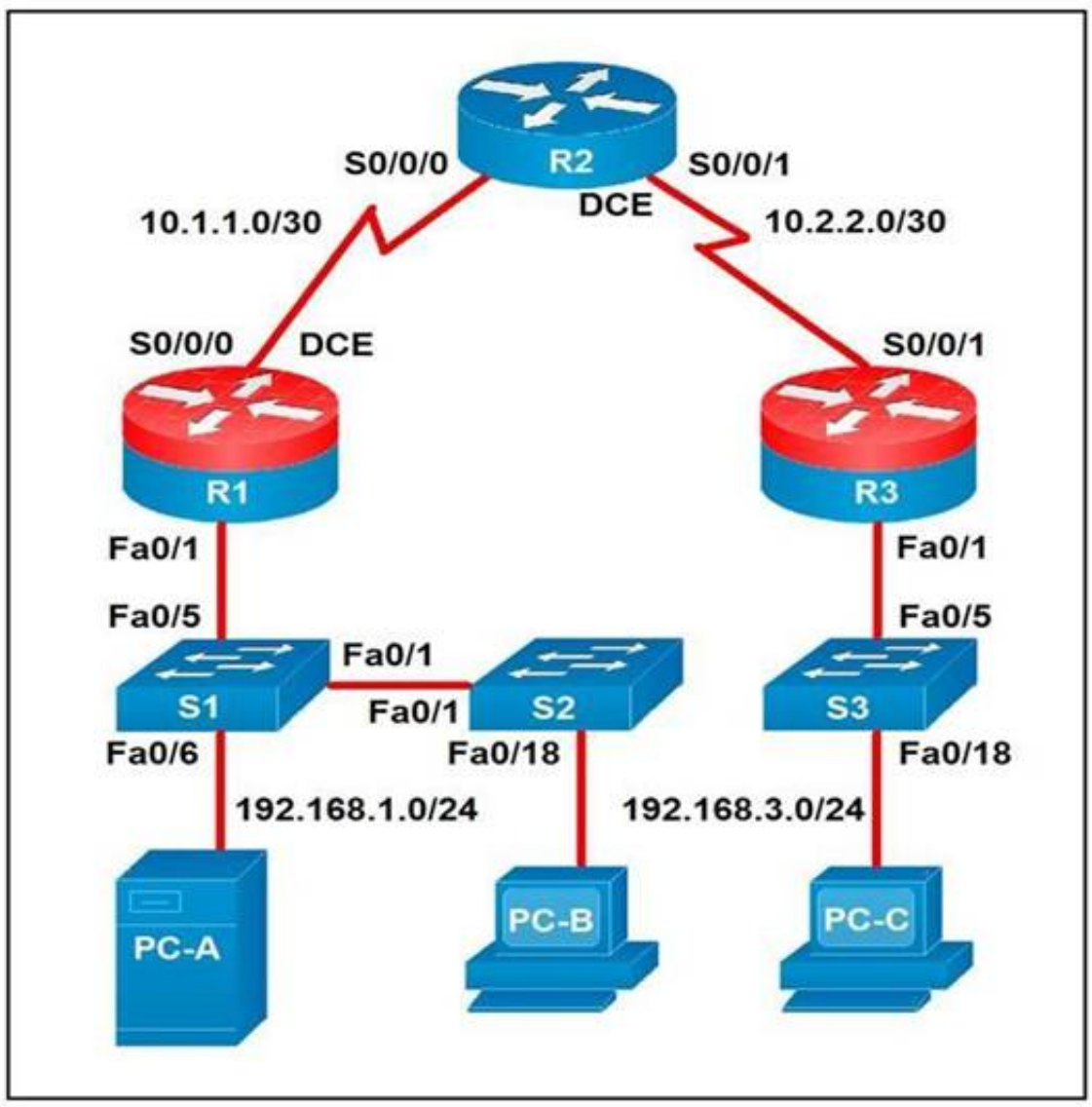


A. Mastered
B. Not Mastered

Answer: A

Explanation:
1 – E, 2 – B, 3 – D, 4 – A

NEW QUESTION 295
- (Exam Topic 1)
Refer to the exhibit.



Which two statements about the network diagram are true? (Choose two.)

A. PC-A and PC-B are in the same subnet.
B. One of the routers has two connected serial interfaces.
C. The subnet of PC-C can contain 256 hosts.
D. R1 and R3 are in the same subnet.
E. The subnet address of PC-B has 18 bits dedicated to the network portion.

Answer: BC

NEW QUESTION 299
- (Exam Topic 1)
Refer to the exhibit.

```
A - bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization: Bearer
    Fj2zzykEa09lic9GK2j8LtE1HklH6oRHPQdw1Pat60i7ndtHHnWzL2b5PQmG14Kk_B9ei5ISAClY7-
    NarA-2n9H-tGgt-SxQ39iDejgcs" -i -d "{ \"roomId\":
B - \"Y2geK53sjELknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QmK9LQZsPOG4\"
    , \"text\": \"test2\" }" -X POST https://api.ciscopark.com/v1/messages
                                                                          C
D - HTTP/1.1 200 OK
    Via: 1.1 linkerd
    Transfer-Encoding: chunked
    TrackingID: ROUTER_5E0FE283-63EB-01BB-00ED-806BF1BD00ED
E - Date: Sat, 01 Jan 2020 00:55:31 GMT
    Server: Redacted
    Content-Type: application/json;charset=UTF-8
    Vary: Accept-Encoding
    Strict-Transport-Security: max-age=63072000; includedSybDomains; preload

    {"id":"
    YCpJf3aVovyBYcbn71SdesNkKcgN5tlExdc6dcnPtl4Va05NfCh9MG17j0tWXQLoIPuoJ73uu7JdoX
    q9 ","roomId":"
F - Y2geK53sjELknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QQmK99LQZsP0G4
    "," roomType":"group","text":"test2","personId":"
    YcgYzL6XgtyfW81XXwqfKf7whfj23KuqWt4kLWkbb3JwEJBlVMZOklvyDdFoppb0einNjl11FcMyy5
    wD","personEmail":"user@webex.com","created":"2020-01-01T00:55:32.492Z"}
    bash-3.2$
```

Drag and drop the descriptors from the left onto the correct parts of the API request and response on the right.

Response Headers	A
HTTP Request	B
HTTP Response	C
Request Payload	D
Request Headers	E
Response Payload	F

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A – E, B – D, C – B, D – C, E – A, F – F

NEW QUESTION 304
- (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 305
- (Exam Topic 1)
On which port does NETCONF operate by default?

A. 23
B. 443
C. 822
D. 830

Answer: D

NEW QUESTION 306
- (Exam Topic 1)
Which platform is run directly using a hypervisor?

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

Answer: C

NEW QUESTION 307
- (Exam Topic 1)
A developer is reviewing a code that was written by a colleague. It runs fine, but there are many lines of code to do a seemingly simple task repeatedly. Which action organizes the code?

A. Refactor the code by removing any unnecessary tests
B. Using functions, rewrite any pieces of code that are repeated
C. Reverse engineer and rewrite the code logic
D. Modify the code to use loops

Answer: B

NEW QUESTION 308
- (Exam Topic 1)
Which is an advantage of using network programmability?

A. It removes CLI access for devices.
B. It provides for more scalable and replicable network provisioning.
C. Manual configuration is faster.
D. No cloud abstraction occurs.

Answer: B

NEW QUESTION 312
- (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 313
- (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 316
- (Exam Topic 1)
Refer to the exhibit.

```
json_string = """
{
        "researcher": {
            "name": "Ford Perfect",
            "species": "Betelgeusian",
            "relatives": [
                {
                    "name": "Zaphod Beeblebrox",
                    "species": "Betelgeusian"
                }
            ]
        }
}
"""

my_json = json.loads(json_string)
```

Which python data structure does my_json contain?

A. List
B. Json
C. Map
D. Dict

Answer: D

Explanation:
Reference:
https://stackoverflow.com/questions/34764979/loading-python-string-with-u-as-json?noredirect=1&lq=1

NEW QUESTION 321
- (Exam Topic 1)
Which line is an example of the start of a chunk from a unified diff?

A. @@ -90,88 +20191008T1349@@
B. @@ -20191007T1200 +88,90 @@
C. @@ -20191007T1200 +20191008T1349@@
D. @@ -88,10 +88,6 @@

Answer: D

Explanation:
Reference:
https://unix.stackexchange.com/questions/252927/what-do-the-numbers-in-the-line-mean-in-output-of-diff

NEW QUESTION 323
- (Exam Topic 1)
Refer to the exhibit.

```
---
- hosts: switch2960cx
  gather_facts: no

  tasks:
    - ios_l2_interface:
        name: GigabitEthernet0/1
        state: unconfigured

    - ios_l2_interface:
        name: GigabitEthernet0/1
        mode: trunk
        native_vlan: 1
        trunk_allowed_vlans: 6-8
        state: present

  - ios_vlan:
      vlan_id: 6
      name: guest-vlan
      interfaces:
        - GigabitEthernet0/2
        - GigabitEthernet0/3

  - ios_vlan:
      vlan_id: 7
      name: corporate-vlan
      interfaces:
        - GigabitEthernet0/4

  - ios_vlan:
      vlan_id: 8
      name: iot-vlan
      interfaces:
        - GigabitEthernet0/5
```

Which two statement describe the configuration of the Ansible script is run? (Choose two.)

A. Traffic on port 0/2 and 0/3 is connected to port 0/6.
B. Traffic from ports 0/2 to 0/5 can flow on port 0/1 due to the trunk.
C. Traffic can flow between ports 0/2 to 0/5 due to the trunk on port 0/1.
D. GigabitEthernet0/2 and GigabitEthernet0/3 are access ports for VLAN 6.
E. GiabitEthernet0/1 is left unconfigured.

Answer: BD

NEW QUESTION 325
- (Exam Topic 1)
A company has written a script that creates a log bundle from the Cisco DNA Center every day. The script runs without error and the bundles are produced. However, when the script is run during business hours, report poor voice quality of phones calls. What explains this behavior?

A. The application is running in the Voice VLAN and causes delays and jitter in the subnet.
B. The speed and duplex settings in Cisco DNA Center are sot incorrectly, which causes the transfer to be too slow.
C. 9 The script is written in a low-level programming language where there is no memory safet
D. This causes a buffer overflow and disruption on the network.
E. Generating the logs causes the CPU on the network controller to spike, which causes delays m forwarding the voice IP packets.

Answer: D

NEW QUESTION 329

- (Exam Topic 3)
What is a characteristic of the Cisco Finesse platform?

A. Applications allow services to be invoked on a network triggered event.
B. The platform provides a ready-to-go platform for HD video and audio conferencing.
C. Applications are added to the platform from the desktop remotely.
D. The platform includes an enterprise-class IM engine.

Answer: A

Explanation:
A characteristic of the Cisco Finesse platform is that applications allow services to be invoked on a network triggered event. Cisco Finesse is a next-generation agent and supervisor desktop designed to provide a rich, browser-based experience for contact center agents and supervisors. It offers a flexible, open development platform that allows developers to build custom applications and integrations to meet the specific needs of their contact center. One of the key features of Cisco Finesse is the ability to trigger actions based on events within the contact center network, such as an incoming call or a change in the status of a customer's account. This allows developers to build applications that can react to real-time events and provide relevant information or services to agents as they handle customer interactions.

NEW QUESTION 333
- (Exam Topic 3)
What is a capability of Ansible playbooks?

A. They execute scheduled tasks regularly.
B. They define the state for a device configuration.
C. They collect SNMP logs from networking devices.
D. They utilize the target device agent to execute.

Answer: A

NEW QUESTION 334
- (Exam Topic 3)
Refer to the exhibit.

```
<routing xmlns="urn:ietf:params:xml:ns:yang:ietf-routing">
    <routing-instance>
        <name>default</name>
        <description>default-vrf [read-only]</description>
        <routing-protocols>
            <routing-protocol>
                <type xmlns:ospf="urn:ietf:params:xml:ns:yang:ietf-
                ospf">ospf:ospfv2</type>
                <name>100</name>
                <ospf xmlns="urn:ietf:params:xml:ns:yang:ietf-ospf">
                    <instance>
                        <af xmlns:rt="urn:ietf:params:xml:ns:yang:ietf-
                        routing">rt:ipv4</af>
                         <router-id>1.1.1.1</router-id>
                         <nsr>
                            <enable>false</enable>
                        </nsr>
                        <auto-cost>
                             <enable>false</enable>
                         </auto-cost>
                        <redistribution
                        xmlns="urn:ietf:params:xml:ns:yang:cisco-ospf">
                            <rip/>
                         </redistribution>
                    </instance>
                </ospf>
            </routing-protocol>
        </routing-protocols>
    </routing-instance>
</routing>
```

What are two characteristics of the NETCONF response? (Choose two.)

A. ospf is defined by the ietf-ospf module.
B. ietf-ospf imports ietf-routing.
C. redistribution is a module of type cisco-ospf.
D. routing protocols is a list.
E. The main module is routing.

Answer: BC

NEW QUESTION 335
- (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 338
- (Exam Topic 3)
Which technology is responsible for matching a name to an IP address of an application running on a host?

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

Answer: D

NEW QUESTION 342
- (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 344
- (Exam Topic 3)
A file in a local Git repository has been updated and issued the git add . command. The git diff command has been run to compare the changes to the previous commit, but nothing shows. Which action identifies the problem?

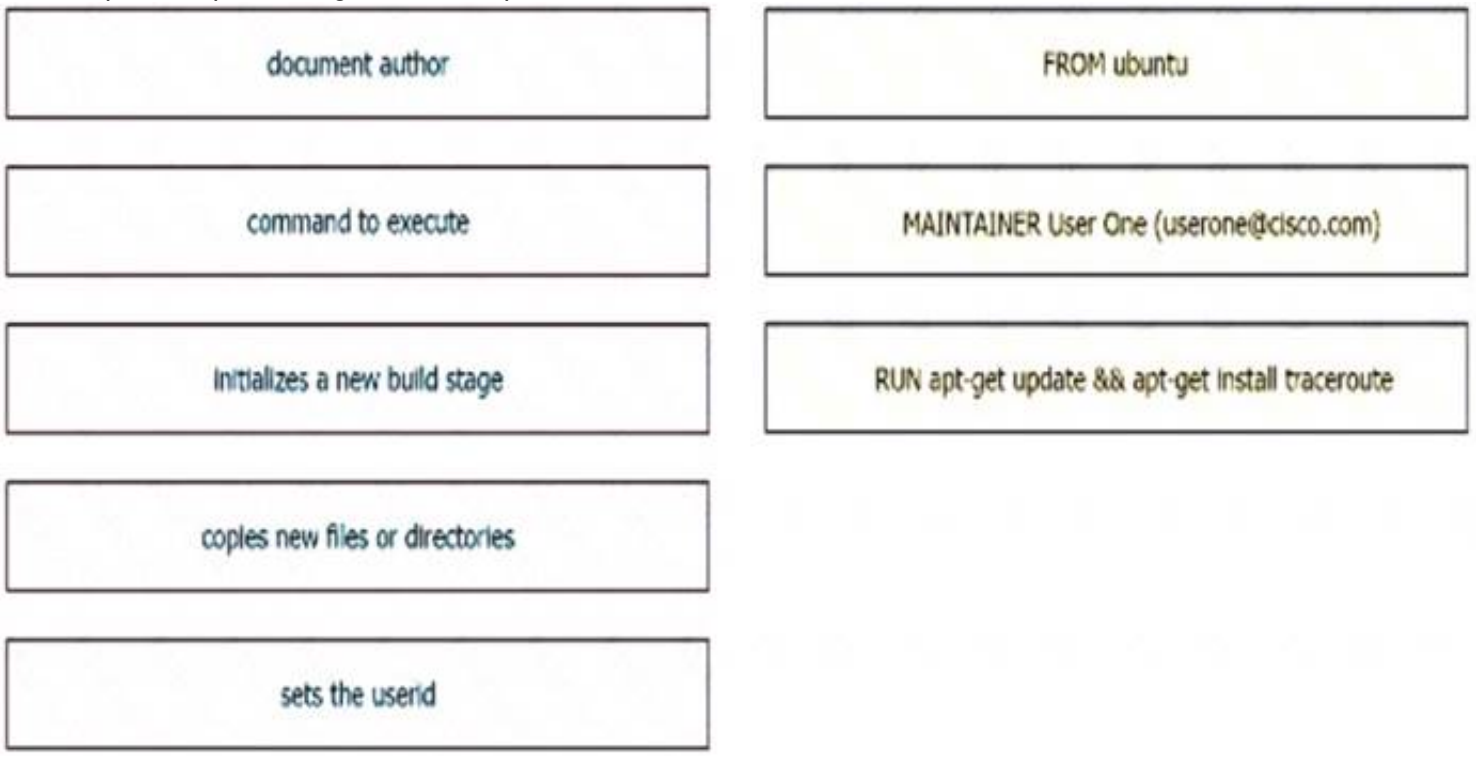
A. Run the git add . command again in the correct subdirectory to ensure changes added to the staging area.
B. Run the git commit command before the differences are compared to receive the end state of the code.
C. Run the git status command to see the differences between current and previous code review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

Answer: D

NEW QUESTION 349
- (Exam Topic 3)

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

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

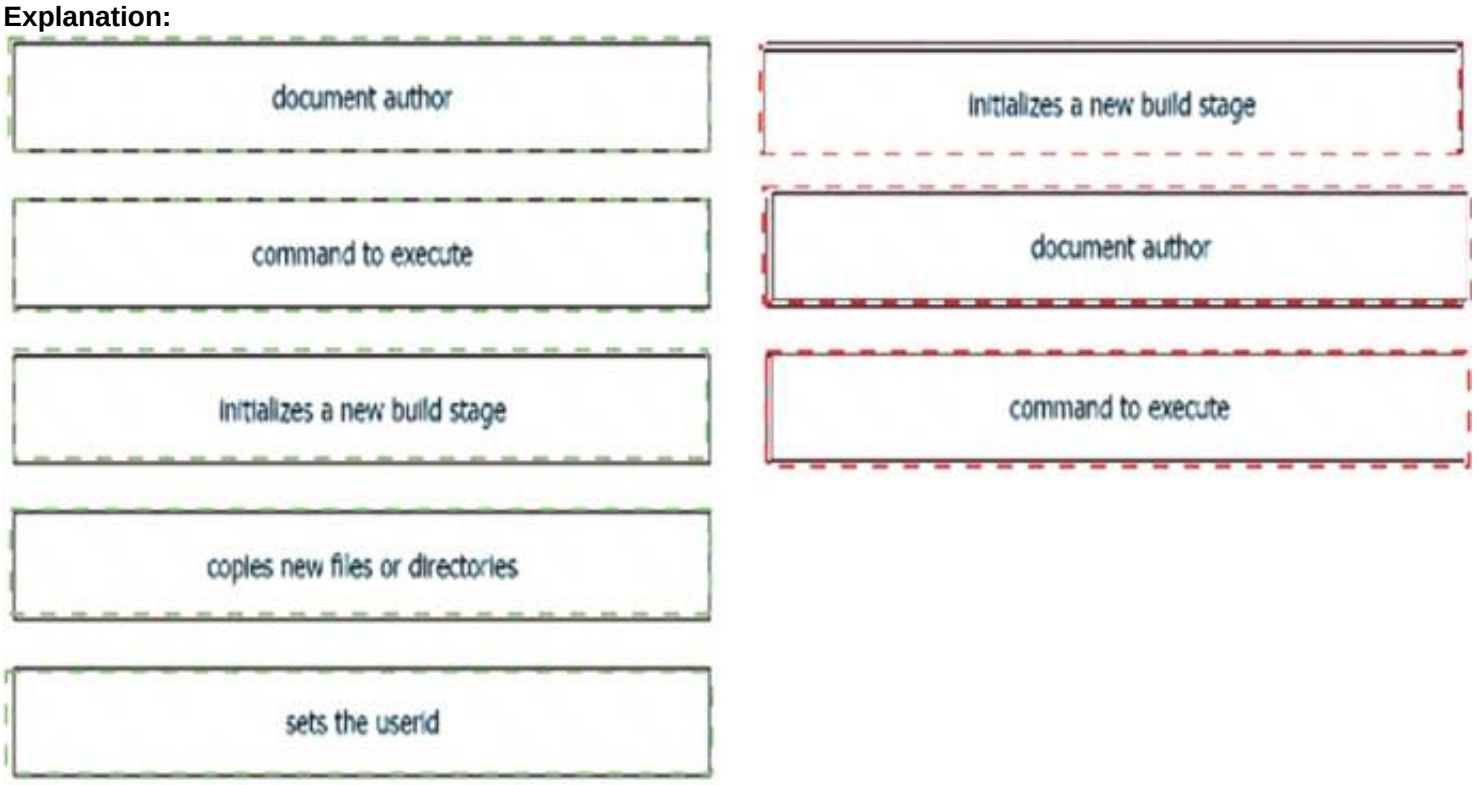


A. Mastered

B. Not Mastered

Answer: A

Explanation:

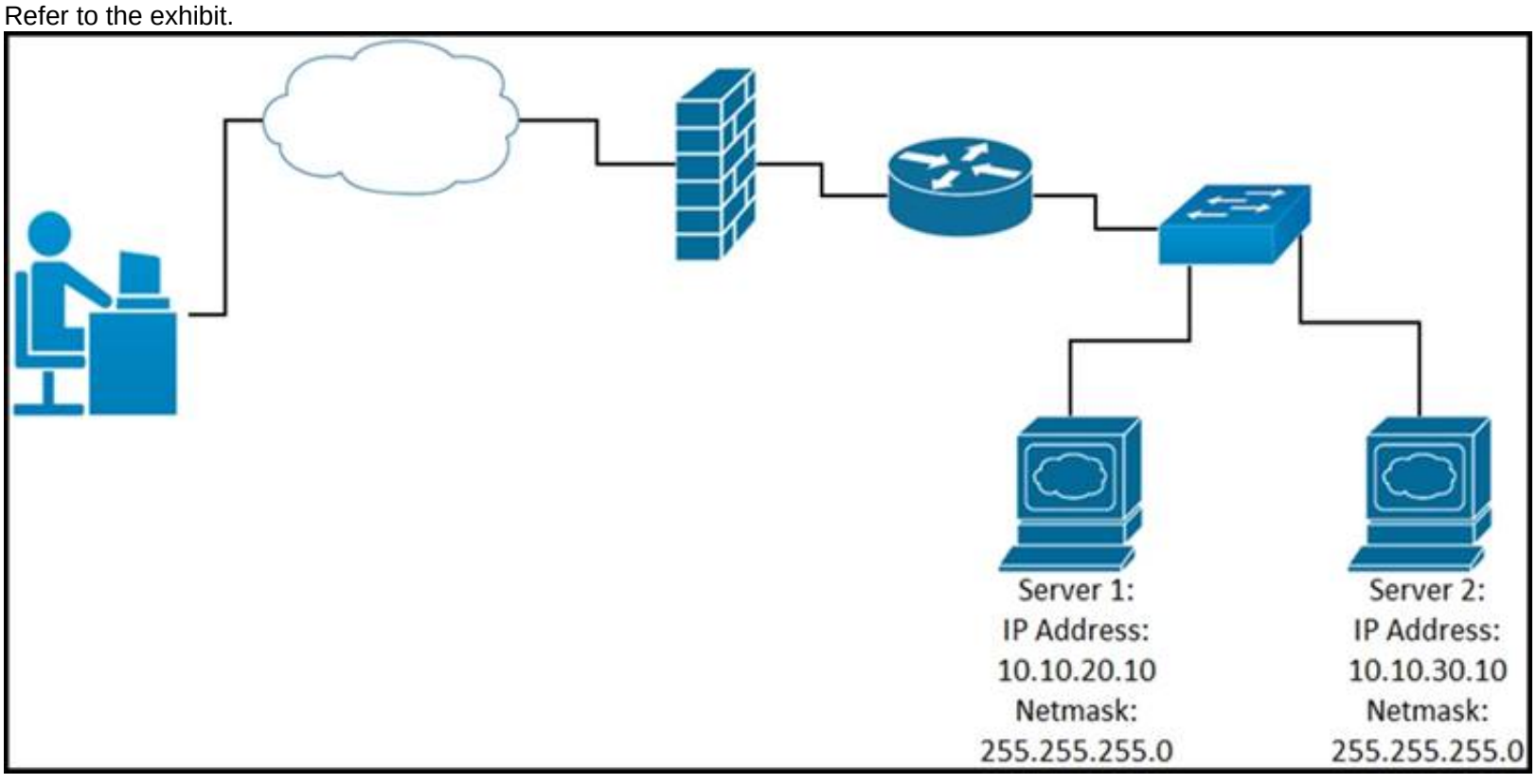


NEW QUESTION 350
- (Exam Topic 3)
What is a capability of the AXL API?

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 353
- (Exam Topic 3)
Refer to the exhibit.



While developing a Cisco Webex bot, an application reaches the public IP address of the firewall, but traffic is forwarded to the IP address of server 1 instead of the IP address of server 2. What causes this issue?

A. The proxy server that rewrites traffic is misconfigured.
B. The router is sending the traffic to server 1 instead of server 2.
C. The switch is forwarding IP traffic to the wrong VLAN.
D. NAT is misconfigured on the firewall.

Answer: D

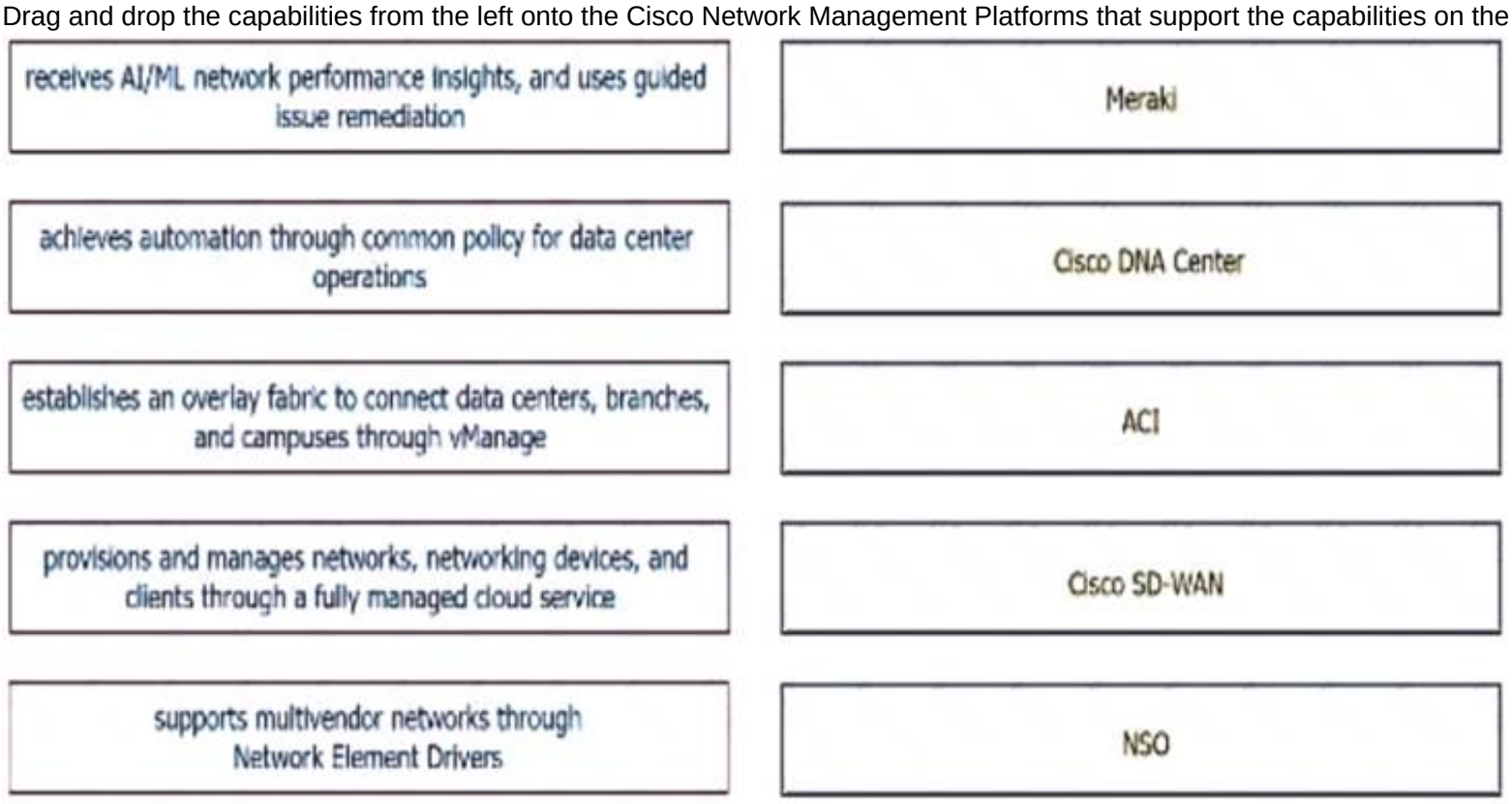
NEW QUESTION 354
- (Exam Topic 3)
A developer has experienced security issues with a previously developed application. The API offered by that application is open and without any constraints. During a recent attack, the application was overloaded with API requests. To address this issue, an API constraint 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

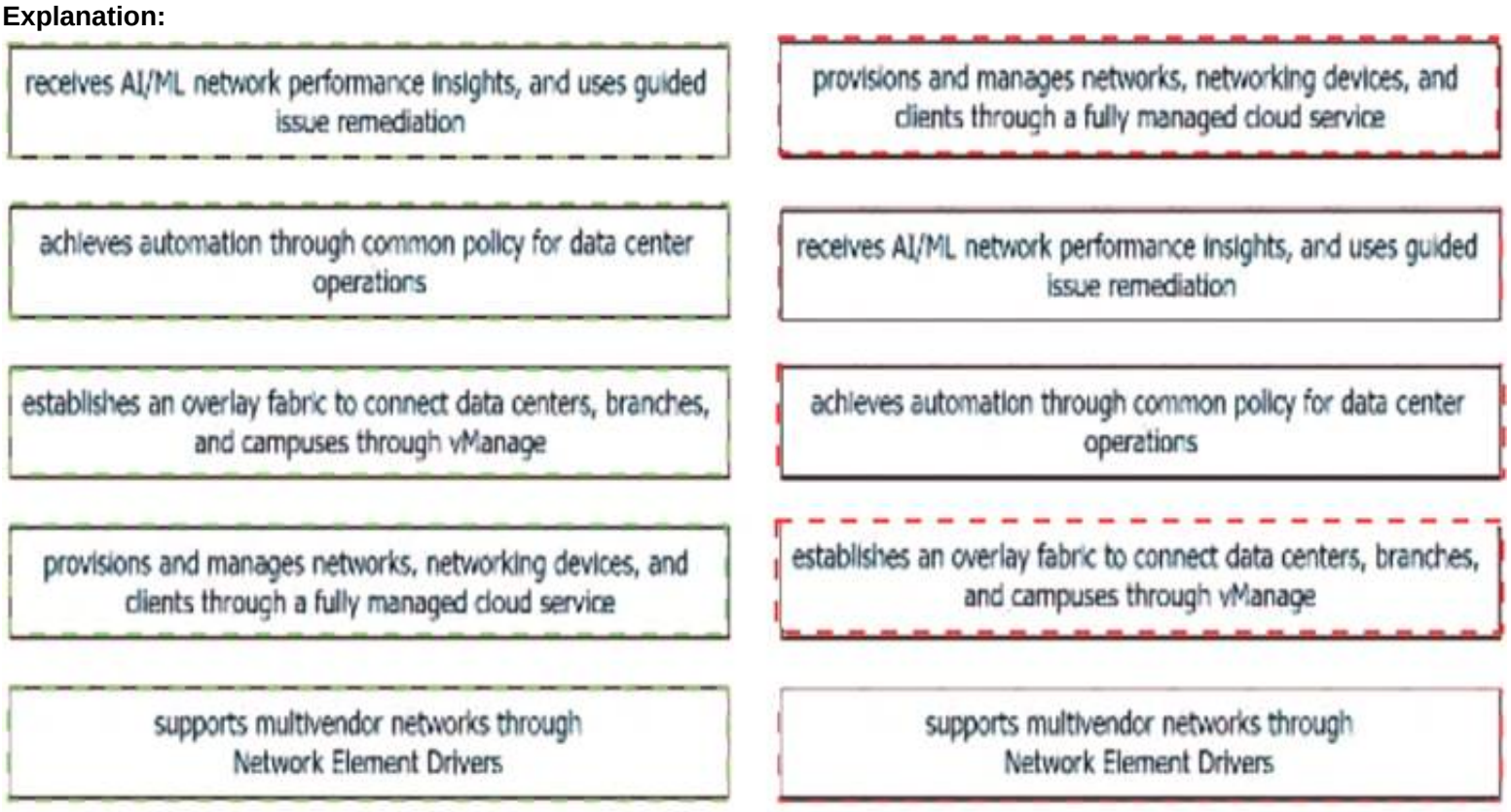
NEW QUESTION 359
- (Exam Topic 3)
Drag and drop the capabilities from the left onto the Cisco Network Management Platforms that support the capabilities on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:

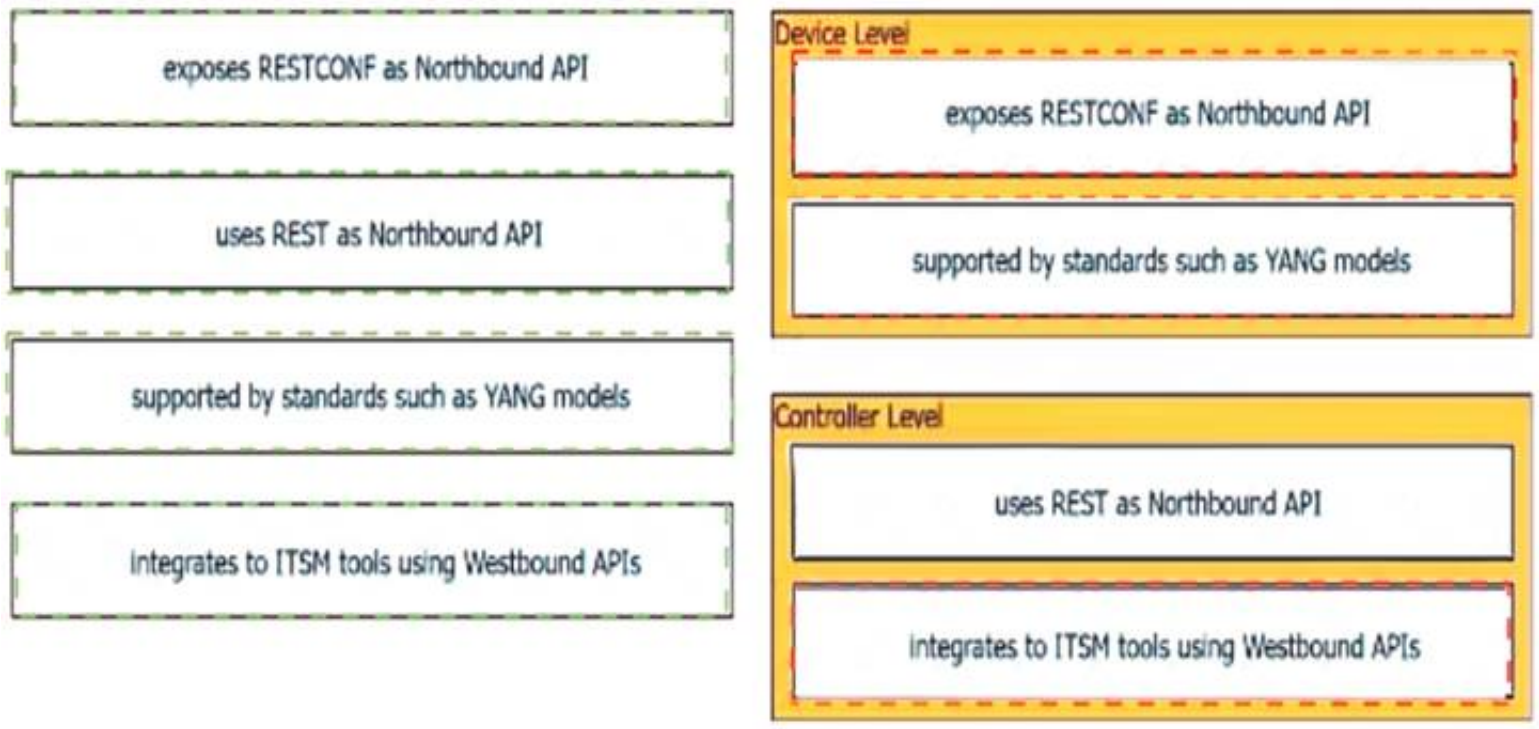


NEW QUESTION 363
- (Exam Topic 3)
Drag and drop characteristics from the left onto the infrastructure management methodologies on the right.

A. Mastered
B. Not Mastered

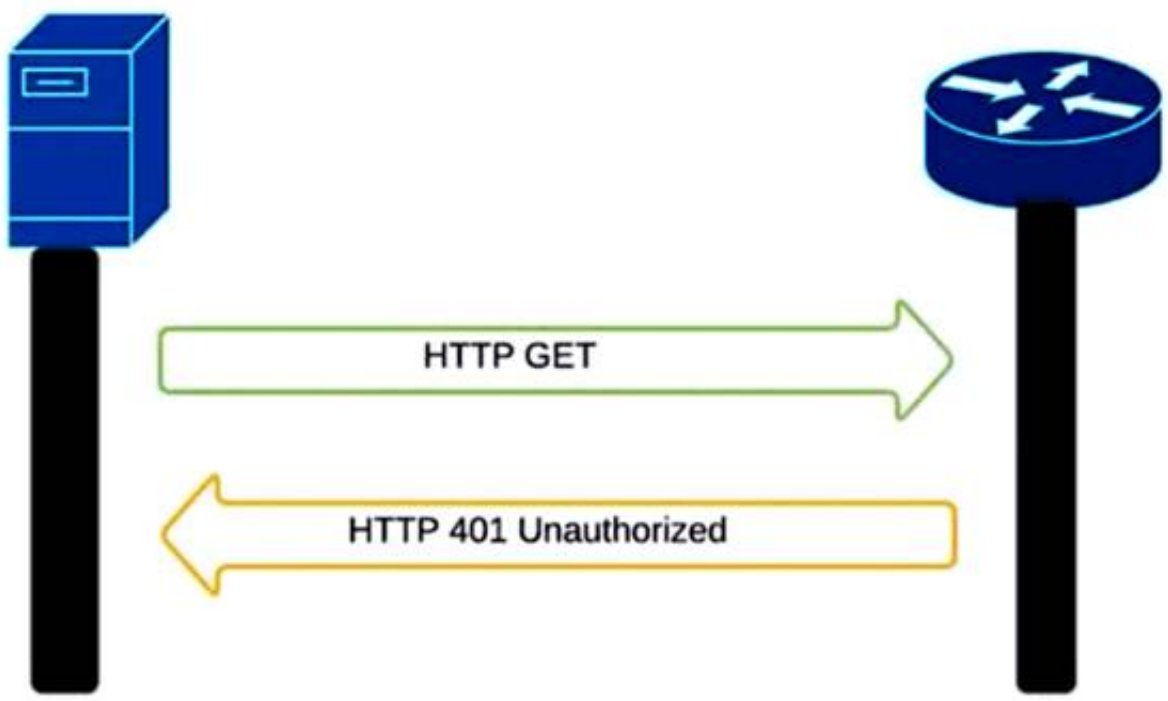
Answer: A

Explanation:



NEW QUESTION 368
- (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 372
- (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 375
- (Exam Topic 3)
Which IP service synchronizes the time across devices?

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

Answer: B

NEW QUESTION 376
- (Exam Topic 3)
What is a procedural component of CI/CD pipelines?

A. Bundled artifacts must be generated.
B. Every test must pass for the pipeline to continue its execution.
C. Some tests fall without stopping the pipeline execution.
D. The release label that identifies the build is optional.

Answer: B

Explanation:
In a CI/CD (Continuous Integration/Continuous Deployment) pipeline, a procedural component is a specific step or action that is carried out in a specific order as

part of the pipeline process. One of the procedural components of a CI/CD pipeline is that every test must pass in order for the pipeline to continue its execution. If any test fails, the pipeline will stop and the issue must be addressed before the pipeline can continue. This is an important procedural component of a CI/CD pipeline because it ensures that the code being deployed is of high quality and meets the necessary standards before it is released.

NEW QUESTION 379
- (Exam Topic 3)

```
---
param0: Workflow1
param1:
  list:
  - name: VLAN_ID
    value: '198'
param2: 0
```

Refer to the exhibit. The YAML shown contains an object "param0" that is equal to "Workflow1", a second object "param1" that contains an object called "list" which contains an array of two objects, "name" (equal to "VLAN_ID") and "value" (equal to a text value "198"), and finally a third object "param2" that is equal to "0". What is the equivalent message in JSON data format?

A.
```
[
"param0"="Workflow1";
 "param1"=
    "list"=
          ["name"="VLAN_ID";
           "value"="198"]
"param2"=0
]
```

B.
```
{
"param0":"Workflow1";
 "param1": {
   "list":
      [
         {"name":"VLAN_ID";
          "value":"198"}
      ]
   },
"param2":0
}
```

C.
```
[
"param0":"Workflow1",
 "param1": {
   "list":
      {
         ["name":"VLAN_ID",
          "value":"198"]
      }
   ],
"param2":0
]
```

D.
```
{
"param0":"Workflow1",
 "param1": {
   "list":
      [
         {"name":"VLAN_ID",
          "value":"198"}
      ]
   },
"param2":0
}
```

Answer: D

NEW QUESTION 380
- (Exam Topic 3)

```
HTTPS/1.1 201 Created
 Date: Tue, 08 Nov 2020 09:37:27 GMT
 Server: example-server
 Location: https://example.com/restconf/data\
           example-jukebox/library/dogbreed=Australian%20Cattle%20Dog
 Last Modified: Tue 08 Nov 2020 09:37:27 GMT
 ETag: "s1878124t4c"
```

Refer to the exhibit. Which RESTCONF request results in this response?

A.
```
GET /restconf/data/example-jukebox:jukebox/library HTTP/1.1
     Host: example.com
     Content-Type: application/yang-data-json

     {
      "Example-jukebox:dogbreed" : [
        {
          "name" : "Australian Cattle Dog
        }
      ]
   }
```

B.
```
CONFIG /restconf/data/example-jukebox:jukebox/library HTTP/1.1
     Host: example.com
     Content-Type: application/yang-data-json

     {
      "Example-jukebox:dogbreed" : [
        {
          "name" : "Australian Cattle Dog
        }
      ]
   }
```

C.
```
PUT /restconf/data/example-jukebox:jukebox/library HTTP/1.1
     Host: example.com
     Content-Type: application/yang-data-json

     {
      "Example-jukebox:dogbreed" : [
        {
          "name" : "Australian Cattle Dog
        }
      ]
   }
```

D.
```
POST /restconf/data/example-jukebox:jukebox/library HTTP/1.1
     Host: example.com
     Content-Type: application/yang-data+json

     {
      "Example:dogbreed" : [
        {
          "name" : "Australian Cattle Dog
        }
      ]
   }
```

Answer: D

NEW QUESTION 382
- (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

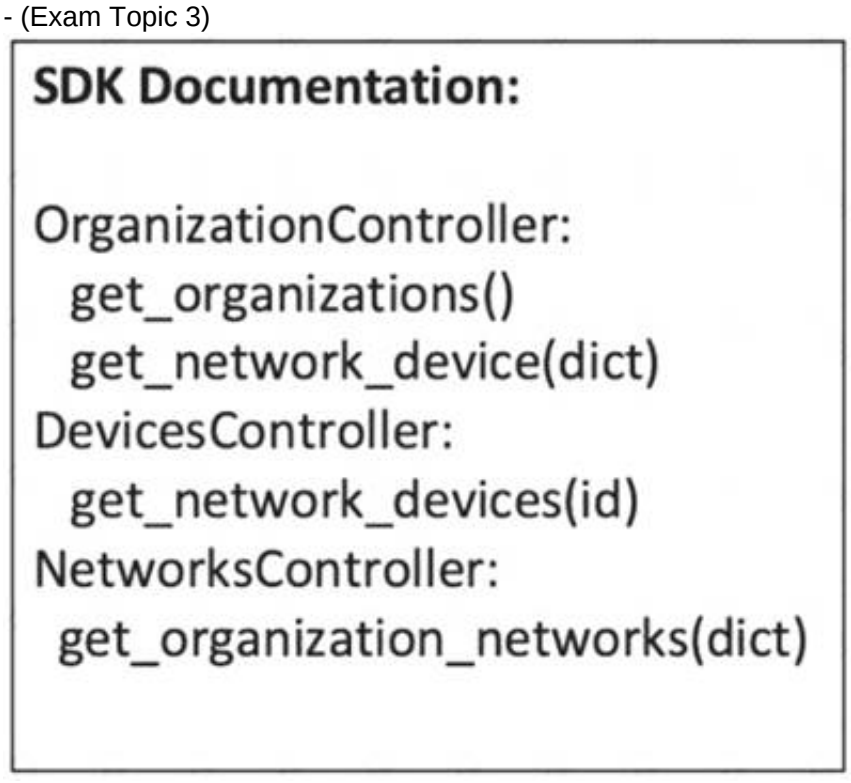
NEW QUESTION 385
- (Exam Topic 3)
Which OWASP threat takes advantage of a web application that the user has already authenticated to execute an attack?

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

Answer: D

Explanation:
Cross-Site Request Forgery (CSRF) is an attack that forces an end user to execute unwanted actions on a web application in which they're currently authenticated.
https://owasp.org/www-community/attacks/csrf

NEW QUESTION 388
- (Exam Topic 3)



Refer to the exhibit. A script must output details of all the Cisco Meraki MS220-BP switches across all organizations and networks. Drag and drop the code snippets from the bottom onto the boxes in the code to complete the script. Not all options are used.

```
from meraki_sdk.meraki_sdk_client import MerakiSdkClient
from meraki_sdk.exceptions.api_exception import APIException

api_key = "API_KEY"
client = MerakiSdkClient(api_key)

for org in [                                                    ]
    try:
        options = {"organization_id": org["id"]}
        networks = [                                                    ]
        for network in networks:
            devices = [                                                    ]
            for device in devices:
                if device["model"] == "MS220-8P":
                    options = {"network_id": network["id"], "serial": device["serial"]}
                    output = [                                                    ]
                    print(output)
    except APIException as e:
        pass
```

client.organizations.get_organizations():

client.networks.get_organization_networks(api_key)

client.networks.get_organization_networks(options)

client.devices.get_network_devices(network ["id"])

client.devices.get_network_device(options=options)

client_devices.get_network_device(device ["model"])

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
from meraki_sdk.meraki_sdk_client import MerakiSdkClient
from meraki_sdk.exceptions.api_exception import APIException

api_key = "API_KEY"
client = MerakiSdkClient(api_key)

for org in [client.organizations.get_organizations():]
    try:
        options = {"organization_id": org["id"]}
        networks = [client.networks.get_organization_networks(options)]
        for network in networks:
            devices = [client.devices.get_network_devices(network ["id"])]
            for device in devices:
                if device["model"] == "MS220-8P":
                    options = {"network_id": network["id"], "serial": device["serial"]}
                    output = [client.devices.get_network_device(options=options)]
                    print(output)
    except APIException as e:
        pass
```

client.organizations.get_organizations():

client.networks.get_organization_networks(api_key)

client.networks.get_organization_networks(options)

client.devices.get_network_devices(network ["id"])

client.devices.get_network_device(options=options)

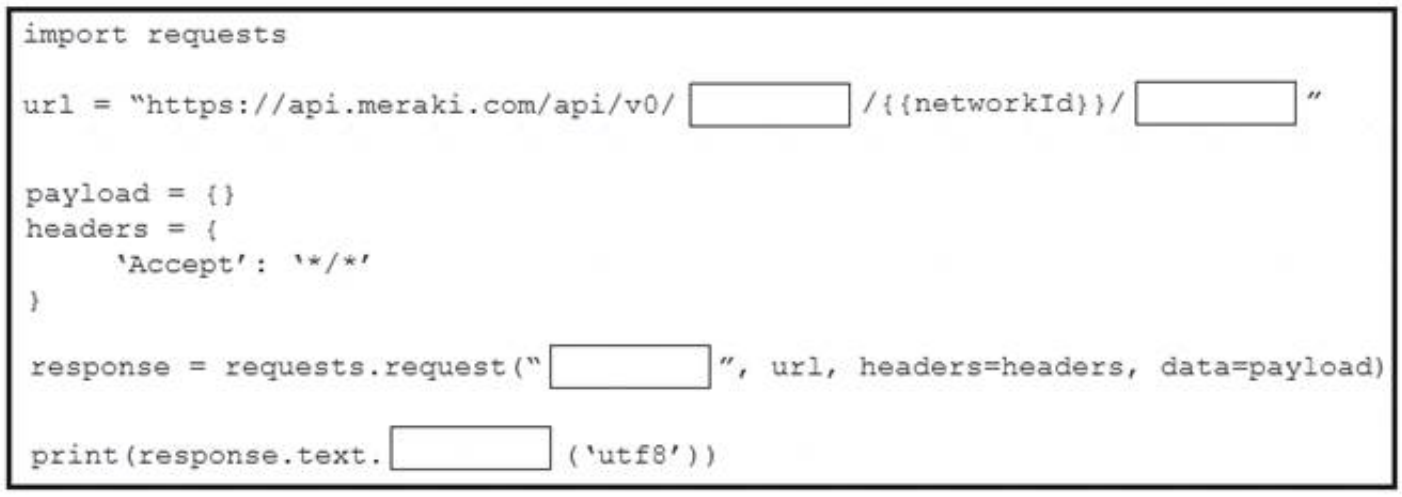
client_devices.get_network_device(device ["model"])

NEW QUESTION 389
- (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

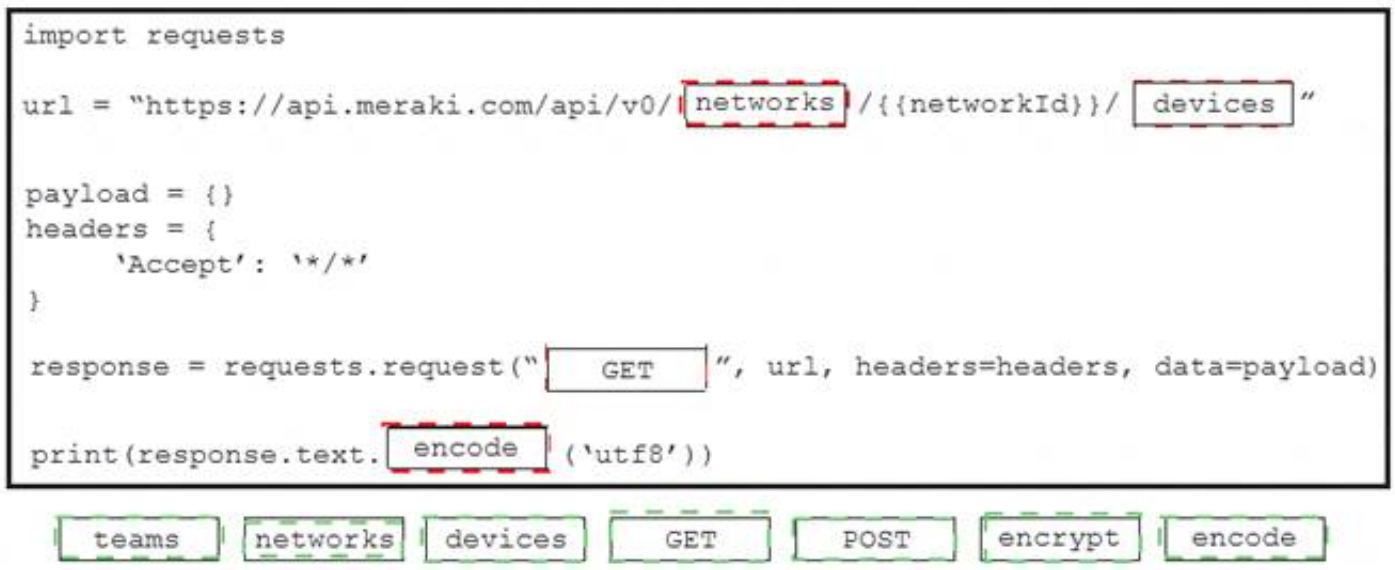
NEW QUESTION 393
- (Exam Topic 3)
Drag and drop the code from the bottom onto the box where the code is missing to obtain a list of network devices by using the Cisco Meraki API. Not all options are used.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 394
- (Exam Topic 3)
A developer attempts to refactor and improve the application code. It is noticed that the code contains several pieces of key information that could be a security threat if this code is accessible by those who are not authorized to this data. Which approach addresses the security concerns noticed by the developer?

A. Host the application code on a machine located in a secure data center.
B. Utilize environment variables for username and password details.
C. Rely on the security teams' goodwill to not give access to those who do not need it.
D. Move the hardware that the application is deployed on to a secure location.

Answer: B

NEW QUESTION 398
- (Exam Topic 3)
Refer to the exhibit.

HTTP Request

```
curl http://hello-api.info -v
```

HTTP Response

```
*   Trying hello-app.info...
* TCP_NODELAY set
* Connected to hello-app.info (hello-app.info) port 80 (#0)
> GET / HTTP/1.1
> Host:hello-app.info
> User-Agent: curl/7.64.1
> Accept: */*
>

< HTTP/1.1 502 Bad Gateway
< Server: nginx/1.14.0 (Ubuntu)
< Date: Sat, 21 Nov 2020 11:09:54 GMT
< Content-Type: text/html
< Content-Length: 182
< Connection: keep-alive
```

A developer cannot reach the web application behind an NGINX load balancer. The developer sends a request to an application FQDN with cURL but gets an HTTP 502 response. Which action solves the problem?

A. Fix errors in the server configuration, which is behind the load balancer.
B. Bring up the load balancer to the active state.
C. Fix errors in the cURL request sent by the client.
D. Change the default gateway on the load balancer to an active one.

Answer: A

Explanation:
The HyperText Transfer Protocol (HTTP) 502 Bad Gateway server error response code indicates that the server, while acting as a gateway or proxy, received an invalid response from the upstream server.
https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/502#:~:text=The%20HyperText%20Transfer%20P

NEW QUESTION 403
- (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 404
- (Exam Topic 3)
Which platform has an API that has the capability to obtain a list of vulnerable software on user devices?

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

Answer: A

NEW QUESTION 406
- (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 407
- (Exam Topic 3)
Which port does HTTPS use by default?

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

Answer: B

NEW QUESTION 409
- (Exam Topic 3)
Refer to the exhibit.

```
url = 'https://api.amp.cisco.com/v1/computers'
response = session.get (url)
response_json = response.json ()

for item in response_json ['data'] :
    print (item['connector_guid'], item['hostname'])

while 'next' in response_json['metadata'] ['links']:
    [                                              ]
    response = session.get (next_url)
    response_json = response.json()
    for item in response_json['data']:
        print(item['connector_guid'], item['hostname'])
```

An engineer sends the request to collect data over Cisco AMP for Endpoints API. The Engineer must list guide and hostname data for all computers, but the first request returns only 500 items out of 2,000. Then, the engineer adds the loop to collect all the data. What must be added to the script where the code is missing to complete the requests?

A. `next_url = response_json ['metadata'] ['links'] ['next']`

B. `next_url = response_json ['metadata'] ['next']`

C. `next_url = response_json ['next']`

D. `next_url = response_json ['metadata'] ['links']`

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

Answer: A

Explanation:
https://github.com/CiscoSecurity/amp-03-pagination/blob/master/01_paginate.py while 'next' in response_json['metadata']['links']:
next_url = response_json['metadata']['links']['next'] response = session.get(next_url)
response_json = response.json()
for computer in response_json['data']: print(computer['connector_guid'], computer['hostname'])

NEW QUESTION 412
- (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+=
```

fvBD	fvTenant	ClassQuery	bdname	DnQuery	ClassName	commit

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

qry2 = ClassQuery ("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( fvBD , ip=f'10.114.{i}.1/24')
    c.addMo(fvBD)
    aci. commit (c)
    i+=
```

fvBD | fvTenant | ClassQuery | bdname | DnQuery | ClassName | commit

NEW QUESTION 414
- (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 418
- (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 421
- (Exam Topic 2)
Which configuration management tool has an agentless capability?

A. Chef
B. Puppet
C. Ansible
D. CFEngine

Answer: C

NEW QUESTION 422
- (Exam Topic 2)
Refer to the exhibit.

API Documentation:

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

Script:

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

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

A)

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

B)

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

C)

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

D)

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

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

Answer: C

NEW QUESTION 423
- (Exam Topic 2)
What is a benefit of a model-driven approach for infrastructure automation?

A. enforces the generation of all automation scripts through the modeling environment
B. provides a small learning curve and helps system administrators with limited coding experience
C. ensures that system administrators gain a good understanding of coding and expand their experience and capabilities
D. enables a user to understand a declarative language to translate the model into an actionable script

Answer: A

NEW QUESTION 427
- (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 431
- (Exam Topic 2)
Drag and drop the code snippets from the bottom to the blanks in the code to test the API response through the Python unittest library. Not all options are used.

```
import unittest
import json
from apidogs import app

class TestsAPIDogs(unittest.TestCase):

    def setUp(self):
        self.app = app.test client()

    # Check status response of API
    def test status(self):
       resp =self.app.get('/dogs/all')
       status_code = response. [          ]
       self.assertEqual(status_code, [          ] )

    # Check for content type is in application/json
    def test content type(self):
       resp =self.app.get('/dogs/all')
       self.assertEqual(resp. [          ] ,'application/json')

    def test item not exist(self):
       resp =self.app.get('/dogs?id= [          ] ')
       self.assertEqual(response.status code,404)
```

none	content	
status_code	200	content_type
403	status	

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text Description automatically generated

NEW QUESTION 433
- (Exam Topic 2)
What is a capability of an agentless configuration management system?

A. It requires managed hosts to have an interpreter for a high-level language such as Python or Ruby.
B. It requires managed hosts to connect to a centralized host to receive updated configurations.
C. It uses compiled languages as the basis of the domain-specific language to interface with managed hosts.
D. It uses existing protocols to interface with the managed host.

Answer: D

NEW QUESTION 436
- (Exam Topic 3)
Which TCP port is used to connect to a network device by using Telnet?

A. 23
B. 69
C. 400
D. 830

Answer: A

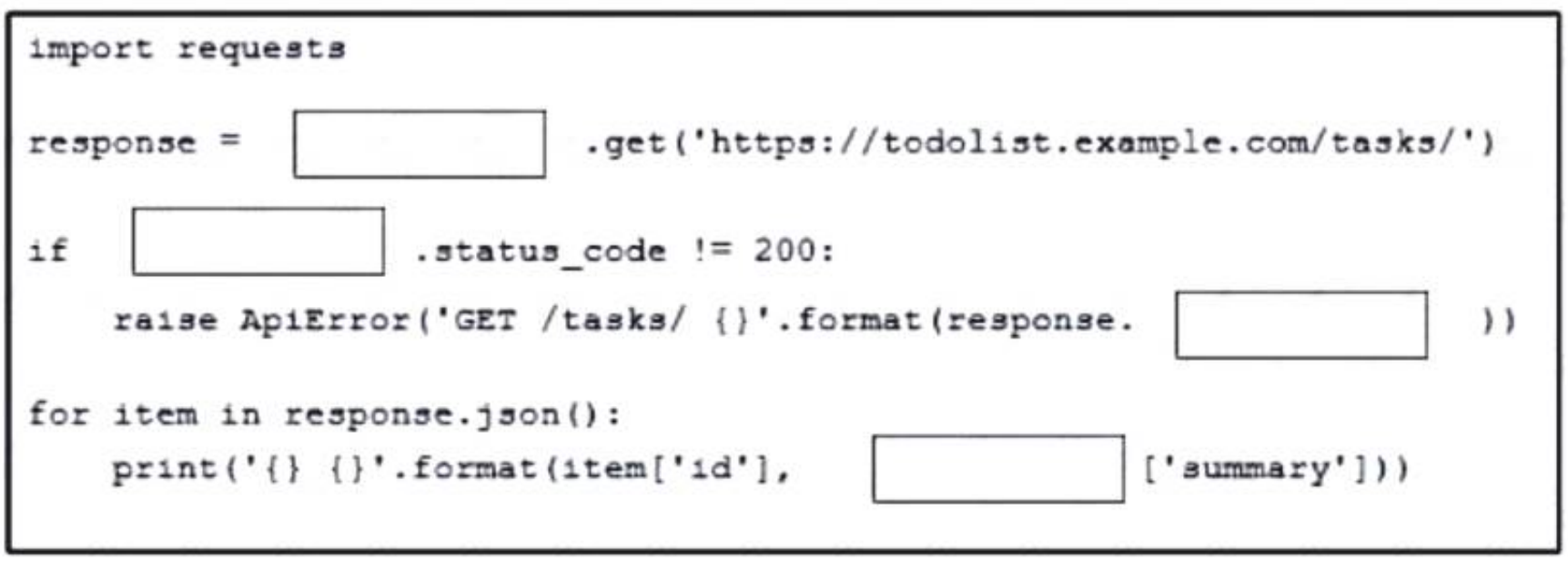
NEW QUESTION 441
- (Exam Topic 3)
Developer is working on a new feature and made changes on a branch named ‘branch-413667549a-new’. When merging the branch to production, conflicts occurred. Which Git command must the developer use to recreate the pre-merge state?

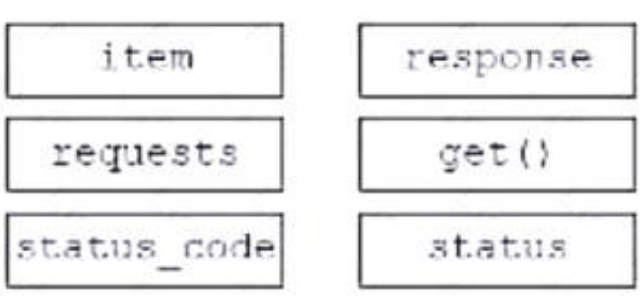
A. git merge -no-edit
B. git merge -commit
C. git merge -revert
D. git merge -abort

Answer: D

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

NEW QUESTION 446
- (Exam Topic 3)
Drag and drop the code from the bottom onto the box where the code is missing to construct a Python script that calls a REST API request. The Python script retrieves a list of tasks from a to-do list for effective project management purposes. Not all options are used.

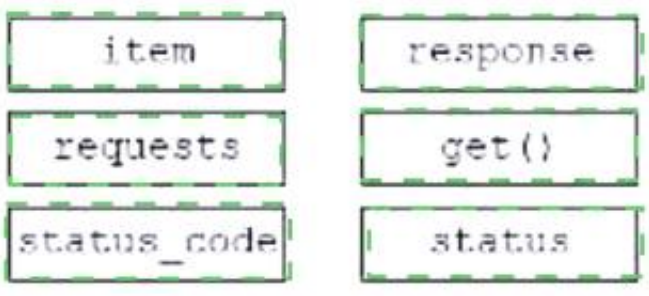




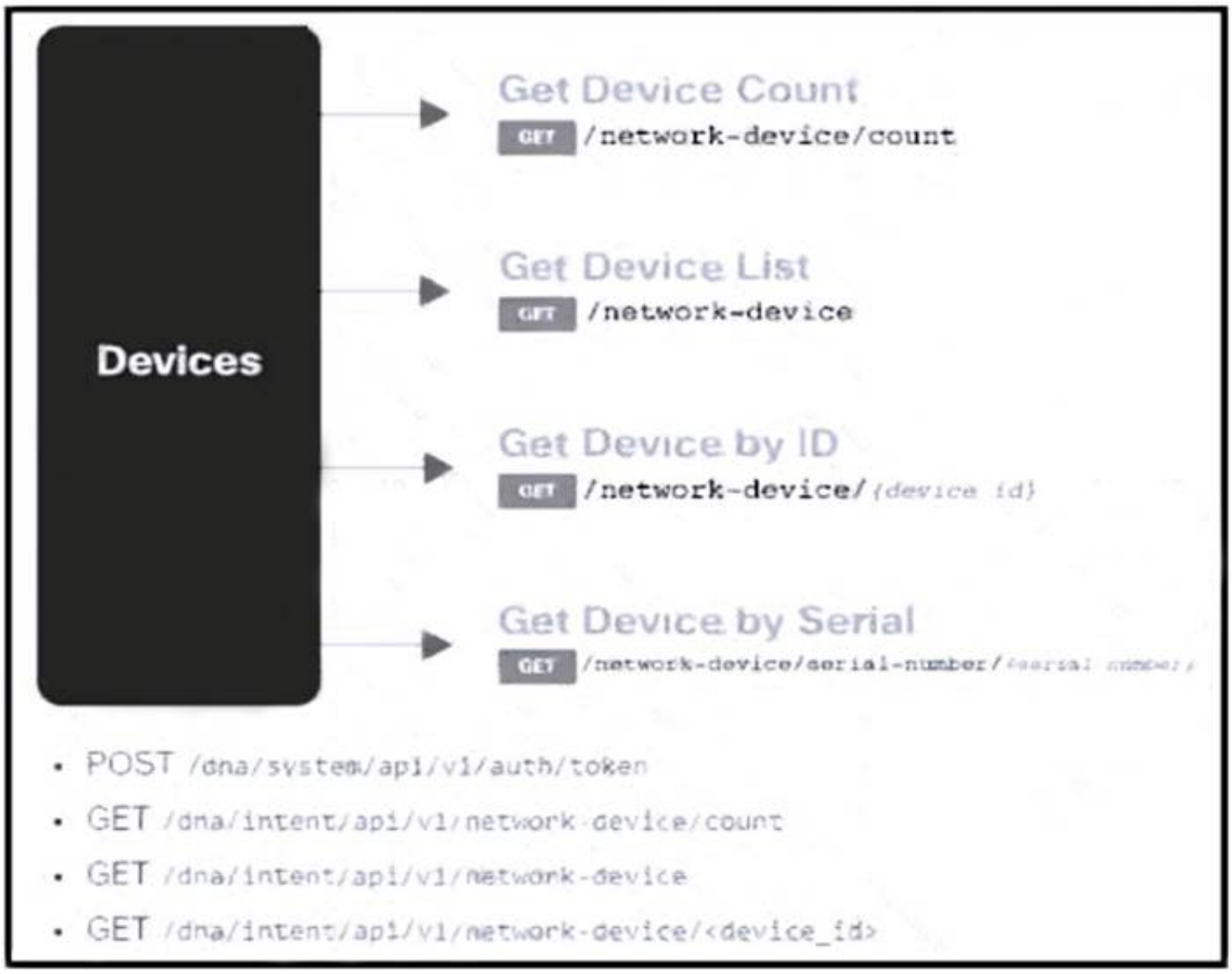
A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 448
- (Exam Topic 3)



Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to construct a request that generates a security token and gets a list of network devices. Not all options are used.

```
import json, requests, urllib3
from requests.auth import HTTPBasicAuth
from config import host, username, password

headers = { 'content-type': "application/json", 'x-auth-token': "" }
def dna_api_auth(host, username, password):
    url = "https://{}/api/system/v1/auth/token".format(host)
    response = [          ].post(url, auth=HTTPBasicAuth(username, password),
       headers=headers, verify=False)
    return response.json()["Token"]

def list_dna_devices(token):
    url = "https://{}/api/v1/network-device".format(host)
    headers["x-auth-token"] = token
    response = requests.get(url, headers=headers, verify=False)
    data = [          ].json()
    for item in data['response']:
        print(item["hostname"])

token = [          ] (host, username, password)
[          ] (token)
```

response	reply	dna_api_auth	requests
json	list_dna_devices	list devices	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
import json, requests, urllib3
from requests.auth import HTTPBasicAuth
from config import host, username, password

headers = { 'content-type': "application/json", 'x-auth-token': "" }
def dna_api_auth(host, username, password):
    url = "https://{}/api/system/v1/auth/token".format(host)
    response = [ requests ] .post(url, auth=HTTPBasicAuth(username, password),
       headers=headers, verify=False)
    return response.json()["Token"]

def list_dna_devices(token):
    url = "https://{}/api/v1/network-device".format(host)
    headers["x-auth-token"] = token
    response = requests.get(url, headers=headers, verify=False)
    data = [ response ] .json()
    for item in data['response']:
        print(item["hostname"])

token = [ dna_api_auth ] (host, username, password)
[ list_dna_devices ] (token)
```

response	reply	dna_api_auth	requests
json	list_dna_devices	list devices	

NEW QUESTION 452
- (Exam Topic 3)
Which IP service is used to monitor the performance of network devices?

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

Answer: A

NEW QUESTION 455
- (Exam Topic 3)

get_interface_info_by_id(*device_id, headers=None, **request_parameters*) [source]

Returns list of interfaces by specified device.

Parameters

- **device_id** (*basestring*) – Device ID.
- **headers** (*dict*) – Dictionary of HTTP Headers to send with the Request .
- ****request_parameters** – Additional request parameters (provides support for parameters that may be added in the future).

Returns

JSON response. Access the object's properties by using the dot notation or the bracket notation.

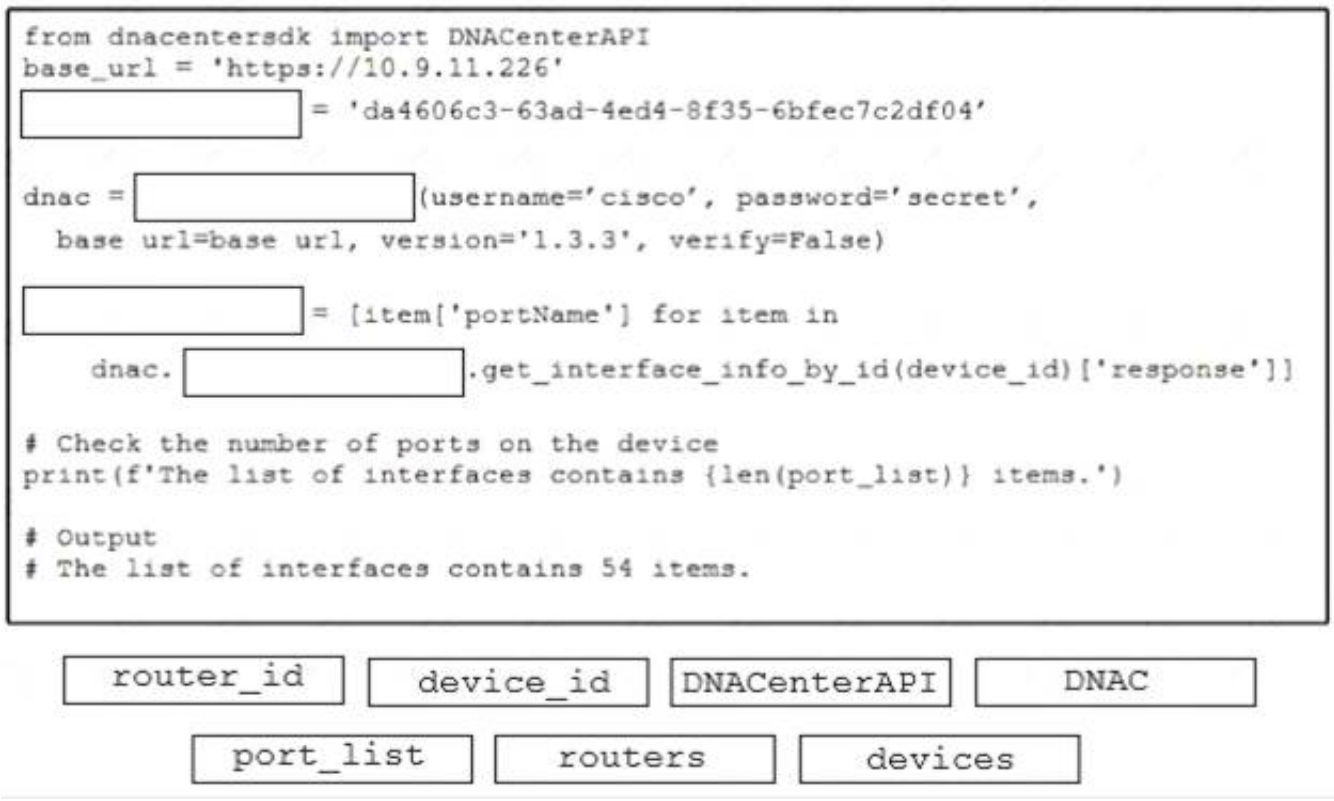
Return type

MyDict

Raises

- TypeError – If the parameter types are incorrect.
- MalformedRequest – If the request body created is invalid.
- ApiError – If the DNA Center cloud returns an error.

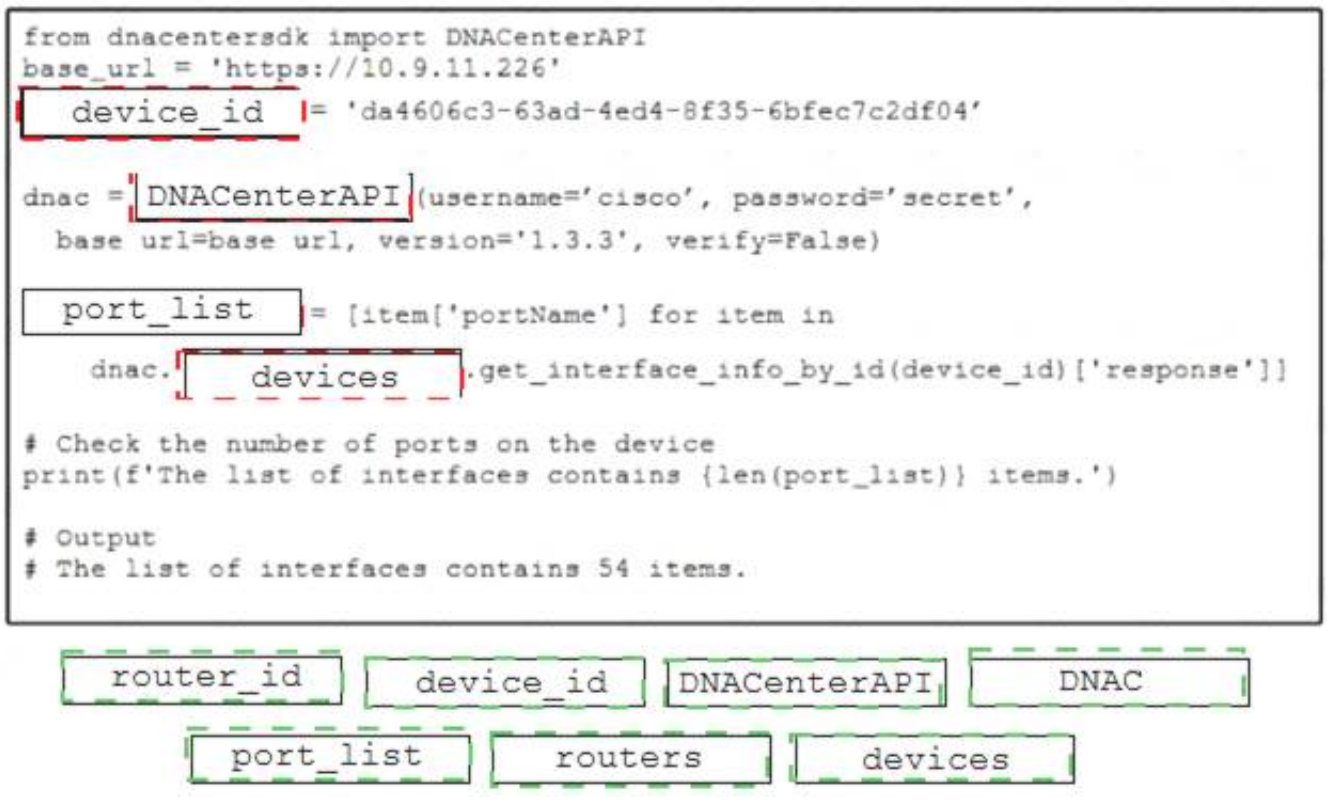
Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to return the number of interfaces on a network device by using the Cisco DNA Center SDK. Not all options are used.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 460
- (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 462
- (Exam Topic 3)

```
- name: Configure Interfaces
  with_items: "{{interfaces}}"
  netconf_config:
  <<: *host_info
  xml: |
    <config>
      <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
        <interface>
          <name>{{item.interface_type}}{{item.interface_id}}</name>
          <description>{{item.description}}</description>
          <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-
          type">ianaift:ethernetCsmacd</type>
          <enabled>true</enabled>
          <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
            <address>
              <ip>{{item.ip_address}}</ip>
              <netmask>{{item.subnet_mask}}</netmask>
            </address>
          </ipv4>
        </interface>
      </interfaces>
    </config>
```

Refer to the exhibit. A network engineer must configure new interfaces on a set of devices and is planning to use an Ansible playbook for the task. All devices support SSH and NETCONF protocol, and the interface variables are unique per device. In which directory are the YAML files including variables hosted to automate the task with the netconf_config module?

A. current working directory
B. host_vars directory
C. group_vars directory
D. home directory

Answer: A

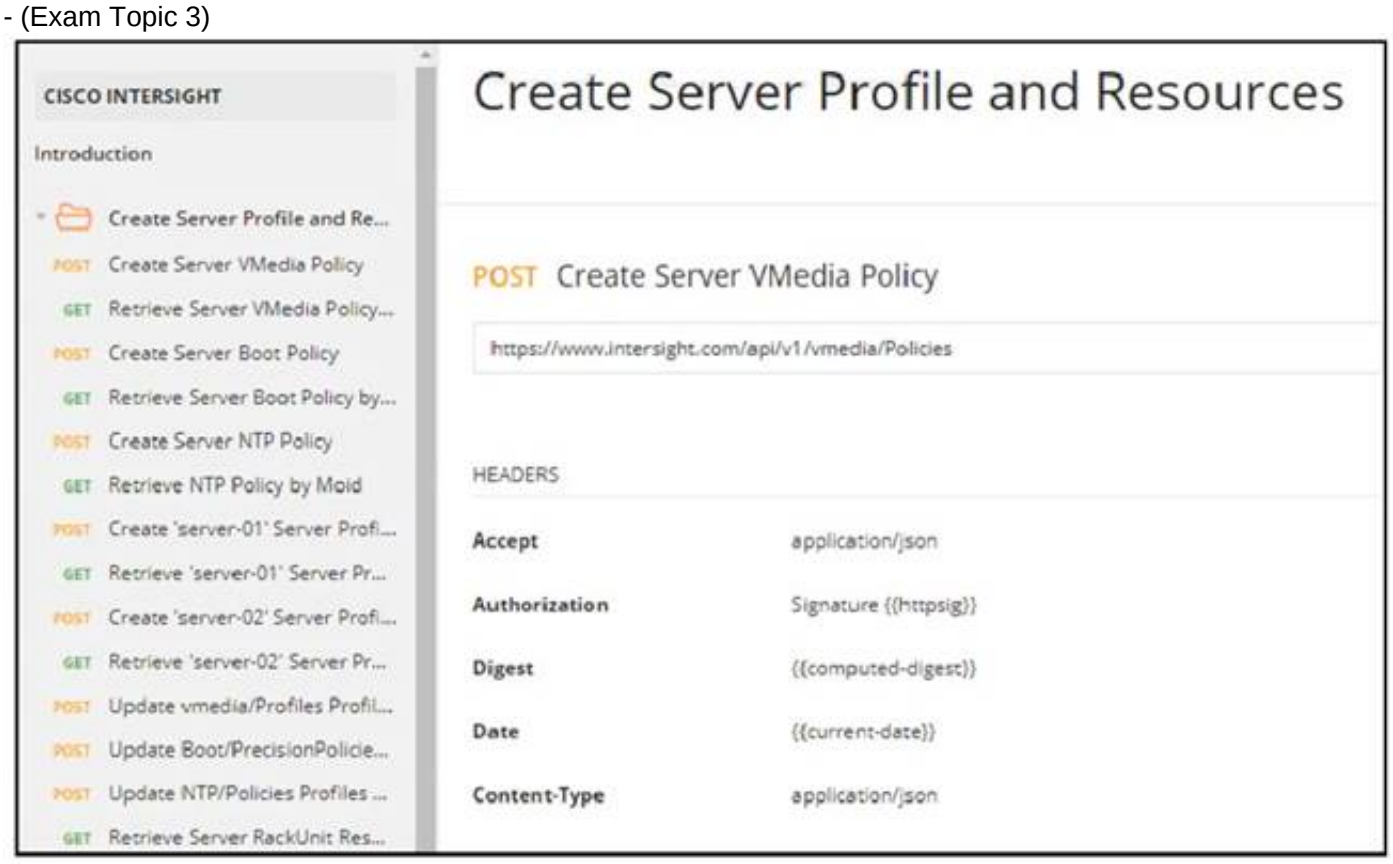
NEW QUESTION 465
- (Exam Topic 3)
Which Python function is used to parse a string that contains JSON data into a Python dictionary?

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 469
- (Exam Topic 3)



Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to construct a Python script by using the Cisco SDK. Not all options are used.

```
import sys, json, argparse
from intersight.intersight_api_client import IntersightApiClient
from intersight.apis import asset_device_registration_api, asset_device_claim_api

result = dict(changed=False)

parser = argparse.ArgumentParser()
parser.add_argument('-a', '--api_params', default='intersight_api_params.json')
parser.add_argument('-t', '--target_host', dest='hostname', required=True)
args = parser.parse_args()
with open(args.api_params, 'r') as api_file:
    intersight_api_params = json.load(  [          ]  )
api_instance = IntersightApiClient(
    host=intersight_api_params['  [          ]  '],
    private_key=intersight_api_params['api_private_key_file'],
    api_key_id=intersight_api_params['api_key_id'],
)
api_handle = asset_device_registration_api.AssetDeviceRegistrationApi(api_instance)

kwargs = dict(filter="ConnectionStatus eq 'Connected'")
[          ]  = api_handle.asset_device_registrations_get(**  [          ]  )
for device in api_result.results:
    if device.device_ip_address[0] == args.hostname:
        api_handle = asset_device_claim_api.AssetDeviceClaimApi(api_instance)
        api_handle.asset_device_claims_moid_delete(moid=device.device_claim.moid)
        result['changed'] = True
        break
```

kwargs | args | api_file | api_key | api_base_uri | result | api_result

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
import sys, json, argparse
from intersight.intersight_api_client import IntersightApiClient
from intersight.apis import asset_device_registration_api, asset_device_claim_api

result = dict(changed=False)

parser = argparse.ArgumentParser()
parser.add_argument('-a', '--api_params', default='intersight_api_params.json')
parser.add_argument('-t', '--target_host', dest='hostname', required=True)
args = parser.parse_args()
with open(args.api_params, 'r') as api_file:
    intersight_api_params = json.load(  [ api_file ]  )
api_instance = IntersightApiClient(
    host=intersight_api_params['  [ api_base_uri ]  '],
    private_key=intersight_api_params['api_private_key_file'],
    api_key_id=intersight_api_params['api_key_id'],
)
api_handle = asset_device_registration_api.AssetDeviceRegistrationApi(api_instance)

kwargs = dict(filter="ConnectionStatus eq 'Connected'")
[ result ]  = api_handle.asset_device_registrations_get(**  [ kwargs ]  )
for device in api_result.results:
    if device.device_ip_address[0] == args.hostname:
        api_handle = asset_device_claim_api.AssetDeviceClaimApi(api_instance)
        api_handle.asset_device_claims_moid_delete(moid=device.device_claim.moid)
        result['changed'] = True
        break
```

kwargs | args | api_file | api_key | api_base_uri | result | api_result

NEW QUESTION 471
- (Exam Topic 3)
How does edge computing analyze sensitive data in the context of privacy control?

A. locally instead of sending the data to the cloud for analysis
B. locally or on the cloud depending on the configuration

C. all at once by sending the data to the cloud
D. locally on each node, and then sends the data to the cloud

Answer: A

NEW QUESTION 475
- (Exam Topic 3)

```
import requests
from requests.auth import HTTPBasicAuth
BASE_URL = 'https://<IP ADDRESS or FQDN>'
AUTH_URL = '/dna/system/api/v1/auth/token'
TOKEN = '<TOKEN>'

headers = {'X-Auth-Token': TOKEN, 'Content-Type': 'application/json'}

DEVICES_COUNT_URL = '/dna/intent/api/v1/network-device/count'
DEVICES_URL = '/dna/intent/api/v1/network-device'
DEVICES_BY_ID_URL = '/dna/intent/api/v1/network-device/'

def devices_func(headers):
    response = requests.get(BASE_URL + DEVICES_COUNT_URL,
                            headers = headers, verify=False)
    return response.json()['response']

def devices_test(headers, query_string_params):
    response = requests.get(BASE_URL + DEVICES_URL, headers = headers,
                            params = query_string_params, verify=False)
    return response.json()['response']

def devices_info(headers, device_id):
    response = requests.get(BASE_URL + DEVICES_BY_ID_URL + device_id,
                            headers =  headers, verify=False)
    return response.json()['response']

print(devices_func(headers))
print(devices_test(headers, {}))
print(devices_test(headers, {'hostname': 'CSR1Kv-01.devnet.local'}))
response = devices_test(headers, {'platformId': 'C9500-40X'})
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 479
- (Exam Topic 3)
Which two situations align with infrastructure as code principles? (Choose two.)

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

Answer: BD

NEW QUESTION 484
- (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

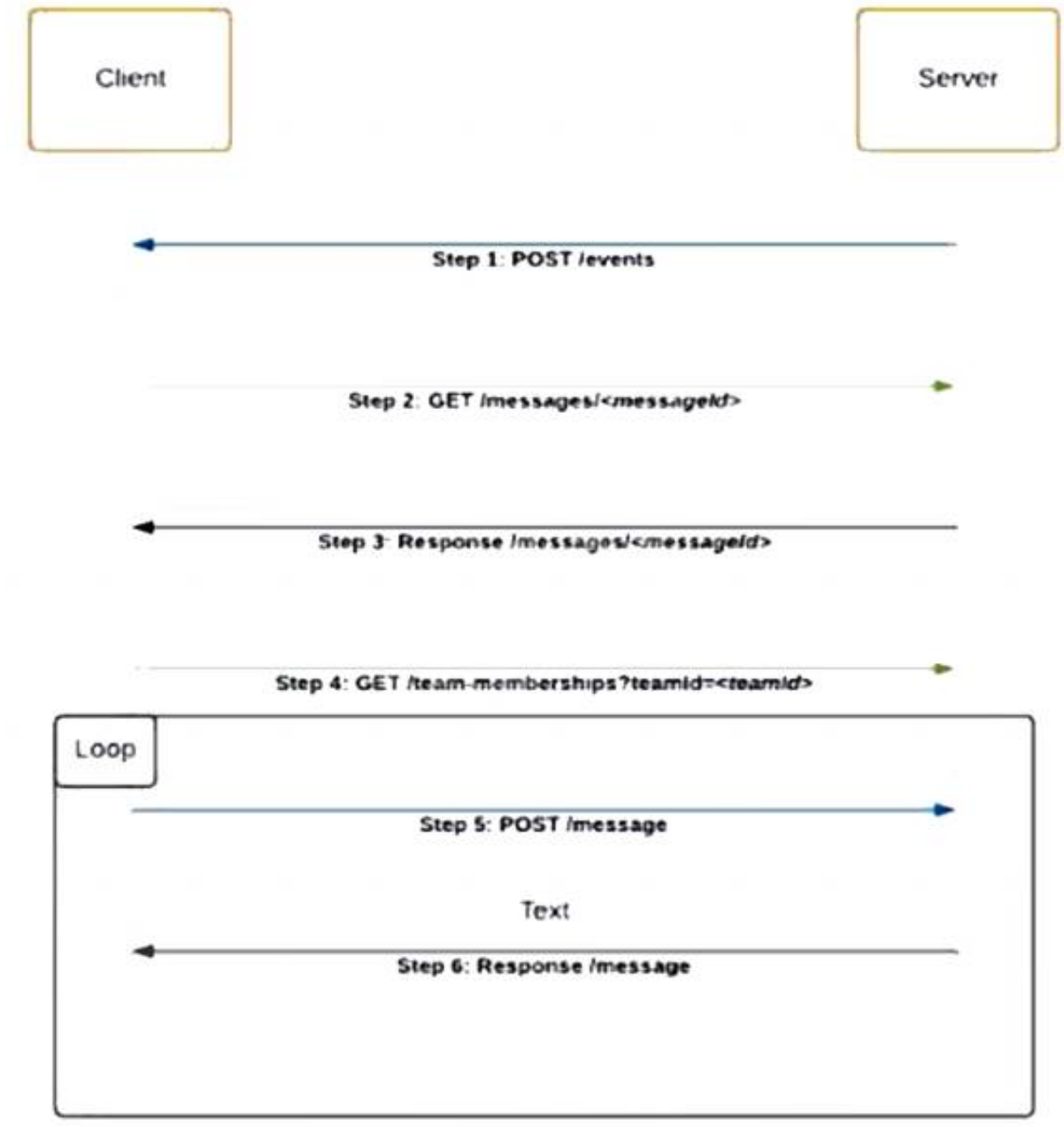
Answer: C

NEW QUESTION 488
- (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 490
- (Exam Topic 3)



Refer to the exhibit. Which code snippet represents the sequence.

A.
```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
  json_data = request.json['data']
  response = requests.get(MESSAGE_URL +
json_data['id'], headers=headers)
  if response.json()['text'] == 'Alert':
    response = requests.get(TEAM_MEMBERSHIPS_URL,
headers=headers, params=params)
    for info in response.json()['items']:
      data = {'personId': info['personId'], 'text':
'Alert'}
                response = requests.post(MESSAGES_URL,
headers=headers, params=params)
```

B.

```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
    json_data = request.json['data']
    if response.json()['text'] == 'Alert':
        response = requests.get(MESSAGE_URL +
json_data['id'], headers=headers)
        response = requests.get(TEAM_MEMBERSHIPS_URL,
headers=headers, params=params)
        for info in response.json()['items']:
            data = ('personId': info['personId'],
'text': 'Alert')
            response = requests.post(MESSAGES_URL,
headers=headers, params=params)
```

C.
```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
  json_data = request.json['data']
  response = requests.post(MESSAGE_URL +
json_data['id'], headers=headers)
  if response.json()['text'] == 'Alert':
    for info in response.json()['items']:
      response = requests.get(TEAM_MEMBERSHIPS_URL,
headers=headers, params=params)
      data = ('personId': info['personId'], 'text':
'Alert')
            response = requests.get(MESSAGES_URL,
headers=headers, params=params)
```

D.
```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
  json_data = request.json['data']
  response = requests.get(TEAM_MEMBERSHIPS_URL,
headers=headers, params=params)
  if response.json()['text'] == 'Alert':
    response = requests.get(MESSAGE_URL +
json_data['id'], headers=headers)
    for info in response.json()['items']:
      data = ('personId': info['personId'], 'text':
'Alert')
      response = requests.post(MESSAGES_URL,
headers=headers, params=params)
```

Answer: C

NEW QUESTION 495
- (Exam Topic 3)
A developer plans to deploy a new application that will use an API to implement automated data collection from Webex with these requirements:
The application was created by using the request library. Requires HTTP basic authentication.
Provides data in JSON or XML formats.
Which Cisco DevNet resource helps the developer with how to use the API?

A. DevNet sandbox
B. API documentation
C. forums
D. DevNet code exchange

Answer: B

NEW QUESTION 499
- (Exam Topic 3)
Which protocol is used for clock synchronization between network devices?

A. FTP

B. NNTP
C. BGP
D. NTP

Answer: D

Explanation:
Network Time Protocol (NTP) is an internet protocol used to synchronize with computer clock time sources in a network. It belongs to and is one of the oldest parts of the TCP/IP suite. The term NTP applies to both the protocol and the client-server programs that run on computers.

NEW QUESTION 504
- (Exam Topic 3)
Which traffic is handled on the control plane?

A. BGP
B. SMB
C. NTP
D. NETCONF

Answer: A

NEW QUESTION 506
- (Exam Topic 3)
What is a benefit of using model-driven programmability for infrastructure automation?

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

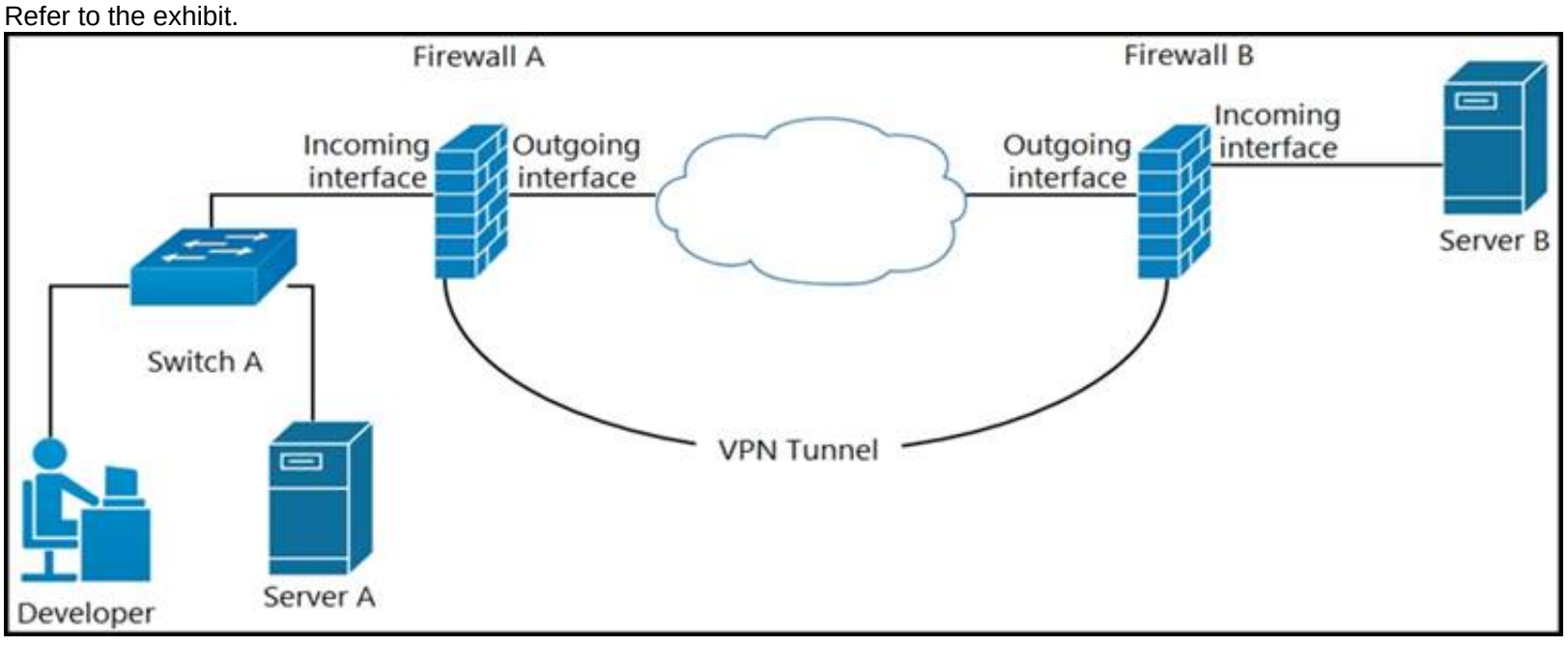
Answer: C

NEW QUESTION 511
- (Exam Topic 3)
Which two details are captured from the subnet mask? (Choose two.)

A. portion of an IP address that refers to the subnet
B. default gateway of the host
C. unique number ID assigned to the host
D. part of an IP address that refers to the host
E. network connection of a host or interface

Answer: AD

NEW QUESTION 516
- (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 520
- (Exam Topic 3)

A developer writes an application that refines data in temporary secure file storage hosted on the public cloud. Data will be deleted after processing and does not contain any private information. What is the advantage that a public cloud deployment provides to the developer?

A. high security with encryption
B. ease in infrastructure management
C. flexible development
D. bespoke services

Answer: B

NEW QUESTION 521
- (Exam Topic 3)
Which protocol runs over TCP port 830?

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

Answer: A

NEW QUESTION 523
- (Exam Topic 3)
Which HTTP error code series relates to redirection?

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

Answer: D

Explanation:
1xx - Informational: The server has received the request and is continuing the process
2xx - Successful: The request was successful and the browser has received the expected information 3xx (Redirection): You have been redirected and the completion of the request requires further action
4xx (Client Error): The website or the page could not be reached, either the page is unavailable or the request contains bad syntax
5xx (Server Error): While the request appears to be valid, the server could not complete the request

NEW QUESTION 524
- (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 528
- (Exam Topic 3)
What are two benefits of implementing common data structures when working with APIs in remote systems? (Choose two.)

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

Answer: BE

NEW QUESTION 533
- (Exam Topic 3)
Refer to the exhibit.

```
cd ~/development/project01
mkdir info
cd info
[                                        ]
cp ./requirements.txt ~/Documents/backup/requirements.txt
```

A developer just finished testing a Python script and wants to save the list of packages and versions installed on the current machine. The developer must make sure that it will not cause any issues if tested on another device due to different library versions. Which line of code needs to be placed on the snippet where the code is missing?

A. pip freeze 2> requirements.txt
B. pip freeze > requirements.txt
C. pip freeze => requirements.txt
D. pip freeze | requirements.txt

Answer: B

Explanation:
pip freeze requirements.txt ile ilgili görsel sonucu The most common command is pip freeze > requirements. txt , which records an environment's current package list into requirements. txt. If you want to install the dependencies in a virtual environment, create and activate that environment first, then use the Install from requirements.

NEW QUESTION 537
- (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 = [ get_token() ]
     url = "https:// "+dna_center_url+ "dna/intent/api/v1/[ network-device ]"
     header = {[ x-auth-token ]: token, 'content-type' : 'application/json'}
     response = requests.get(url, headers=header)
     device_list = [response.json()]
     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 540
- (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": "AGrtg1234",
    "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 544
- (Exam Topic 3)
A company requires a new platform to store large volumes of log data that is generated in their assembly plant. The platform must be scalable, so the underlying technology must provide a path for fast deployment of new nodes for data and indexing? The data contains sensitive information, so specialist encryption tools must be used to secure the data. Which application deployment model meets the requirements?

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

Answer: D

Explanation:
A hybrid cloud combines the benefits of both a private cloud, which offers the ability to store sensitive data in a secure, dedicated environment, and a public cloud,

which offers the ability to scale quickly and easily by deploying new nodes as needed. With a hybrid cloud deployment, you could use specialist encryption tools to secure the sensitive data in the private cloud, and then take advantage of the scalability and flexibility of the public cloud to handle the large volumes of log data.

NEW QUESTION 549
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