



350-901^{Q&As}

Developing Applications Using Cisco Core Platforms and APIs
(DEVCOR)

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QUESTION 1

```
1 from base64 import b64encode
2
3 import requests
4
5 userAndPass = b64encode(b"developer:Cisco12345").decode("ascii")
6 headers = {'Authorization': 'Basic %s' % userAndPass,
7           "Accept": "application/yang-data+json",
8           "Content-Type": "application/yang-data+json"}
9
10 payload = {
11     "hostname": "Router1"
12 }
13
14
15
16
17 print("response:" + str(response.status_code), response.text)
```

Refer to me exhibit The Python code manages a Cisco CSR 1000V router Which code snippet must be placed in the blank m the code to update the current configuration of the targeted resource?

A.

```
uri = "/restconf/data/Cisco-IOS-XE-native:native"
response = requests.patch("https://10.10.20.48:443" +
uri, headers=headers, json=payload
```

B.

```
uri = "/restconf/data/Cisco-IOS-XE-
native:native/hostname"
response = requests.patch("https://10.10.20.48:443" +
uri, headers=headers, json=payload
```

C.

```
uri = "/restconf/data/Cisco-IOS-XE-native:native"
response = requests.post("https://10.10.20.48:443"
+ uri, headers=headers, json=payload
```

D.

```
uri = "/restconf/data/Cisco-IOS-XE-
native:native/hostname"
response = requests.post("https://10.10.20.48:443" +
uri, headers=headers, json=payload
```

A. Option A



B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 2

Which data encoding format uses gRPC by default for serializing structured sets of information?

A. JSON

B. YAML

C. Protobuf

D. XML

Correct Answer: C

Explanation: The data encoding format used by gRPC by default is Protobuf.

QUESTION 3

Refer to the exhibits which show the documentation associated with the create port object API call in Cisco Firepower Threat Defense, and a cURL command. Which data payload completes the cURL command to run the API call?



A.

```
"description": "string",  
"icmpv4Code": "ANY_IPV4",  
"icmpv4Type": "ANY",  
"id": "string",  
"isSystemDefined": "string",  
"name": "string",  
"type": "icmpv4portobject",  
"version": "string"
```

B.

```
"description": "This is an ICMP Echo",  
"icmpv4Code": "8",  
"icmpv4Type": "Echo",  
"isSystemDefined": true,  
"name": "ICMP Echo",  
"version": "2.2"
```

C.

```
"icmpv4Type": "ANY",  
"name": "string",  
"type": "icmpv4portobject"
```

D.

```
"description": "string",  
"icmpv4Code": "ANY_IPV4",  
"icmpv4Type": null,  
"isSystemDefined": true,  
"name": "string",  
"type": "icmpv4portobject"
```



A. B. C. D.

Correct Answer: C

Reference : <https://developer.cisco.com/site/ftd-api-reference/#!editicmpv4portobject/path-parameters>

QUESTION 4

Refer to the exhibit.

```
Code
1 import requests
2 response = requests.get('https://api.meraki.com/api/v0/networks/N_1234/
3 bluetoothClients?perPage=5')
4 links = response.links
5 result = ('links = {}'.format(response.links))
6 print(result)
7
8
9
10
Output
links = [{'url': 'https://api.meraki.com/api/v0/networks/N_1234/
bluetoothClients?perPage=5&startingAfter=0', 'rel': 'first'}, {'url': 'https://
api.meraki.com/api/v0/networks/N_1234/
bluetoothClients?perPage=5&startingAfter=0', 'rel': 'last'}, {'url': 'https://
api.meraki.com/api/v0/networks/N_1234/
bluetoothClients?perPage=5&startingAfter=105', 'rel': 'next'}]
```

A Python script has these requirements

Retrieve a list of Bluetooth clients seen by the access pants on a network. Print the content of the response Retrieve the next page only if it is available in the response headers

What must be added where the code is missing to get the remaining pages by using the next link from the link response header of the last request?

- A.

```
if links[0]['rel'] = 'next':
    url = links[0]['url']
    response = requests.get(url)
    print(response.text)
```
- B.

```
if links[0]['rel'] = 'next':
    url = response.links['next']['url']
    response = requests.get(url)
    print(response.text)
```
- C.

```
if response.links.get('next'):
    url = links['url']
    response = requests.get(url)
    print(response.text)
```
- D.

```
if response.links.get('next'):
    url = response.links['next']['url']
    response = requests.get(url)
    print(response.text)
```

A. B. C. D.



Correct Answer: A

QUESTION 5

```
#k8s-nginx.yml
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 1
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx
          ports:
            - name: nginx-port
              containerPort: 80
---
apiVersion: v1
kind: Service
metadata:
  name: load-balancer
spec:
  selector:
    app: nginx
  ports:
    - port: 80
      targetPort: nginx-port
  type: LoadBalancer
```

Refer to the exhibit. The presented application consists of a Nginx container and a load balancer service. Which GitLab CI/CD configuration implements the Kubernetes deployment?



- A.
- ```
Deploy:
 stage: Deployment
 script:
 - kubectl exec -k k8s-nginx.yml
```
- B.
- ```
Deploy:
  stage: Deployment
  script:
    - kubectl apply -f k8s-nginx.yml
```
- C.
- ```
Deploy:
 stage: Deployment
 script:
 - kubectl apply -k k8s-nginx.yml /patch/to/cluster
```
- D.
- ```
Deploy:
  stage: Deployment
  script:
    - kubectl exec -f k8s-nginx.yml /patch/to/cluster
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

Explanation: <https://kubernetes.io/docs/reference/kubectl/kubectl/>

QUESTION 6

A local Docker container with a Container ID of 391441516e7a is running a Python application. Which command is used to connect to a bash shell in the running container?



- A.

```
docker attach <Container ID>
```
- B.

```
docker exec -it <Container ID> /bin/bash
```
- C.

```
docker run -a stdin -a stdout <Container ID> /bin/bash
```
- D.

```
docker container attach <Container ID>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 7



```
module: ietf-interfaces
  +--rw interfaces
  | +--rw interface* [name]
  | +--rw name string
  | +rw description? string
  | +--rw type identityref
  | +--rw enabled? boolean
  | +--rw link-up-down-trap-enable? enumeration {if-mib}?
  +--ro interfaces-state
  +--ro interface* [name]
  +--ro name string
  +--ro type identityref
  +--ro admin-status enumeration {if-mib}?
  +--ro oper-status enumeration
  +--ro last-change? yang:date-and-time
  +--ro if-index int32 {if-mib}?
  +--ro phys-address? yang:phys-address
  +--ro higher-layer-if* interface-state-ref
  +--ro lower-layer-if* interface-state-ref
  +--ro speed? yang:gauge64
  +--ro statistics
  +--ro discontinuity-time yang:date-and-time
  +--ro in-octets? yang:counter64
  +--ro in-unicast-pkts? yang:counter64
  +--ro in-broadcast-pkts? yang:counter64
  +--ro in-multicast-pkts? yang:counter64
  +--ro in-discards? yang:counter32
  +--ro in-errors? yang:counter32
  +--ro in-unknown-protos? yang:counter32
  +--ro out-octets? yang:counter64
  +--ro out-unicast-pkts? yang:counter64
  +--ro out-broadcast-pkts? yang:counter64
  +--ro out-multicast-pltas? yang:counter64
  +--ro out-discards? yang:counter32
  +--ro out-errors? yang:counter32
```

```
import requests
url = ("https://ios-xe-mgmt.cisco.com:9443/restconf/data/ietf-interfaces:" +
      "interfaces/interface=GigabitEthernet2")

headers = {
  'Accept': "application/yang-data+json",
  'Authorization': "Basic cm9vdDpEX1ZheSFfMTAm",
  'Content-Type': "application"
}

response = requests.request(rest_operation, url, data=payload,
  headers = headers, verify=False)

print (response.text)
```



Refer to the exhibits. An interface named "GigabitEthernet2" has been configured on a Cisco IOS XE device. Using RESTCONF APIs as defined by the ietf-interfaces@2014-05-08.yang model, which two combinations of "rest_operation" and "payload" must be added to the Python script to set the "description" to "Configured by RESTCONF"? (Choose two.)



- A.
- ```
rest_operation = "PATCH"

payload = " {\n \"ietf-interfaces:interface\": {\n \"name\": \"GigabitEthernet2\", \n \"description\": \"Configured by RESTCONF\" \n }\n}"
```
- B.
- ```
rest_operation = "PUT"

payload = " {\n      \"ietf-interfaces:interface\": {\n        \"name\": \"GigabitEthernet2\", \n        \"description\": \"Configured by RESTCONF\" \n      }\n}"
```
- C.
- ```
rest_operation = "PUT"

payload = "{\n \"ietf=interfaces:interface\": {\n \"name\": \"GigabitEthernet2\", \n \"description\": \"Configured by RESTCONF\", \n \"type\": \"iana-if-type:ethernetCsmacd\", \n \"enabled\" true, \n \"ietf-ip:ipv4\": {\n \"address\": [\n {\n \"ip\": \"10.255.255.1\", \n \"netmask\": \"255.255.255.0\" \n } \n] \n } \n } \n}"
```
- D.
- ```
rest_operation = "POST"

payload = " {\n      \"ietf-interfaces:interface\": {\n        \"name\": \"GigabitEthernet2\", \n        \"description\": \"Configured by RESTCONF\" \n      }\n}"
```
- E.
- ```
rest_operation = "POST"

payload = "{\n \"ietf=interfaces:interface\": {\n \"name\": \"GigabitEthernet2\", \n \"description\": \"Configured by RESTCONF\", \n \"type\": \"iana-if-type:ethernetCsmacd\", \n \"enabled\" true, \n \"ietf-ip:ipv4\": {\n \"address\": [\n {\n \"ip\": \"10.255.255.1\", \n \"netmask\": \"255.255.255.0\" \n } \n] \n } \n } \n}"
```



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

Correct Answer: AB

### QUESTION 8

A timeframe custom dashboard must be developed to present data collected from Cisco Meraki. The dashboard must include a wireless health alert count. What needs to be built as a prerequisite?

- A. A publicly available HTTP server to receive Meraki Webhooks from the Meraki Dashboard API
- B. A publicly available HTTP server to receive Meraki Webhooks from the Meraki Scanning API
- C. A daemon to consume the Wireless Health endpoint of the Meraki Scanning API
- D. A daemon to consume the Wireless Health endpoint of the Meraki Dashboard API

Correct Answer: A

### QUESTION 9

```
1 import MySQLdb
2
3 db = MySQLdb.connect(host="localhost",
4 user="cisco",
5 passwd="cisco",
6 db="apdb")
7
8 cur = db.cursor()
9
10 ap_name = raw_input('Enter AP Name: ')
11
12
13 for row in cur.fetchall():
14 print (row)
15
16 db.close()
```

Refer to the exhibit A script returns the location of a specific access point when given the access point name. If a user enters a search value such as `DROP TABLE access points` then the entire table is removed. What must be added to the box where the code is missing to prevent a SQL injection attack?



- A. 

```
cur.execute("SELECT location FROM accesspoints WHERE name = '%s';" % ap_name)
```
- B. 

```
cur.execute("SELECT location FROM accesspoints WHERE name == '%s';" % ap_name)
```
- C. 

```
cur.execute("SELECT location FROM accesspoints WHERE name = %s;", (ap_name,))
```
- D. 

```
cur.execute('SELECT location FROM accesspoints WHERE
```

A. B. C. D.

Correct Answer: D

---

#### QUESTION 10

Which two strategies are used to protect personally identifiable information? (Choose two.)

- A. Encrypt data in transit.
- B. Encrypt hash values of data.
- C. Encrypt data at rest.
- D. Only hash usernames and passwords for efficient lookup.
- E. Only encrypt usernames and passwords for efficient lookup.

Correct Answer: AC

---

#### QUESTION 11

Refer to the exhibit.



```
$ git log -2
commit af7f6cf0898e29a5e354029a43404d89bb091e21 (HEAD -> Branch-5)
Author: User <user@example.com>
Date: Thu Jul 1 07:34:34 2019 -0400

 Commit 12!

commit 5af25b5055124b03cc123016970ea0e0bd044a88
Author: User <user@example.com>
Date: Thu Jul 1 07:33:53 2019 -0400

 Commit 11!
```

Which command results in a detached HEAD scenario?

- A. git checkout 5af25b
- B. git checkout Branch-5
- C. git checkout master
- D. git checkout log -2

Correct Answer: C

## QUESTION 12

DRAG DROP

Refer to the exhibit. A developer is creating a Python script by using Cisco DNA Center APIs. Drag and drop the code from the bottom onto the box where the code is missing in the Python script to retrieve and display wireless health information for each site. Not all options are used.



**Operation Id:** *getSiteHealth*

**Description:** *Returns Overall Health information for all sites*

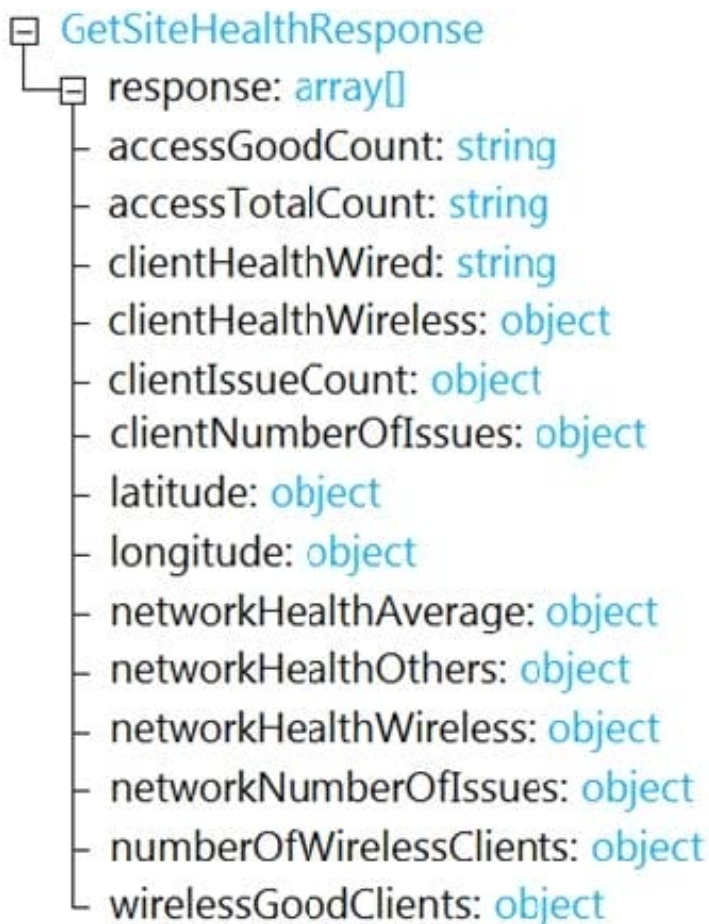
```
GET /dna/intent/api/v1/site-health
```

## Responses

**Status:** 200

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

### Schema Definition      Example Body



Select and Place:



```
import requests

URL = 'https://cisco.dnatest.com:443/dna/intent/api/vl/site-health'
ACCESS_TOKEN = 'ABCD1234'

headers =
{'X-Auth-Token': [REDACTED]}
'Content-type': 'application/json;charset=utf-8')

response = requests.get(URL, params=params_data, headers=headers)

[REDACTED]

sites_response = response.json ['response']
for site in sites_response:
 [REDACTED]
else:
 print([REDACTED] ,
response.text)
```

```
response.status_code
```

```
ACCESS_TOKEN
```

```
print(site['siteName'][0]
['networkHealthWireless'])
```

```
if response.status_code == 200:
```

```
response.error
```

```
while response.code == 200:
```

```
print('{} {}'.format(site['siteName'],
site['networkHealthWireless']))
```

Correct Answer:





```
import requests

URL = 'https://cisco.dnatest.com:443/dna/intent/api/v1/site-health'
ACCESS_TOKEN = 'ABCD1234'

headers =
{'X-Auth-Token': ACCESS_TOKEN
'Content-type': 'application/json;charset=utf-8'}

response = requests.get(URL, params=params_data, headers=headers)

if response.status_code == 200:
 sites_response = response.json ['response']
 for site in sites_response:
 print('{}{}'.format(site['siteName'],
 site['networkHealthWireless']))
else:
 print(response.status_code,
response.text)
```

```
print(site['siteName'][0]
['networkHealthWireless'])
```

```
response.error
```

```
while response.code == 200:
```

### QUESTION 13

An Etag header is included in the HTTP response for an API resource. What are two benefits of using the value of the Etag for future interactions involving the same API resource? (Choose two.)

- A. caching and optimization of response payloads
- B. creating conditional requests
- C. categorizing and comparing this API resource with others
- D. checking the integrity of the resource



E. requesting the list of operations authorized for this resource

Correct Answer: AB

#### QUESTION 14

Refer to the exhibit.

```
1 from http.server import HTTPServer, BaseHTTPRequestHandler
2 import json
3
4 class MainHandler(BaseHTTPRequestHandler):
5 def do_GET(self):
6 users = get_users()
7 self.send_response(200)
8 self.wfile.write(json.dumps(users).encode("utf-8"))
9 self.end_headers()
10
11 if __name__ == "__main__":
12
13 def run(server_class=HTTPServer, handler_class=BaseHTTPRequestHandler):
14 server_address = ('0.0.0.0', 8000)
15 httpd = server_class(server_address, MainHandler)
16 httpd.serve_forever()
17 run()
```

Refer to the exhibit An application hosting server with the local data center is experiencing large amounts of traffic from enclusers. A developer must optimize this API server to reduce the toad on its host. What are two ways to optimize this code through HTTP cache controls? (Choose two.)

- A. Include the "ETag" header in the API response.
- B. Include the "Last-Modified" header in the API response.
- C. Include the "Content-Type" header in the API response.
- D. Leverage middleware caching and respond with HTTP code 104 m the API response
- E. Leverage middleware caching and respond with HTTP code 204 m the API response.

Correct Answer: AB

#### QUESTION 15

Users report that they are no longer able to process transactions with the online ordering application, and the logging dashboard is displaying these messages: Fri Jan 10 19:37:31.123 EST 2020 [FRONTEND] [NFO: Incoming request to add item to cart from user 45834534858 Fri Jan 10 19:37:31.247 EST 2020 [BACKEND] INFO: Attempting to add item to cart Fri Jan 10 19:37:31.250 EST 2020 [BACKEND] ERROR: Failed to add item: MYSQLDB ERROR: Connection refused What is causing the problem seen in these log messages?

- A. The database server container has crashed.



- B. The backend process is overwhelmed with too many transactions.
- C. The backend is not authorized to commit to the database.
- D. The user is not authorized to add the item to their cart.

Correct Answer: A

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