

350-901^{Q&As}

Developing Applications Using Cisco Core Platforms and APIs
(DEVCOR)

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QUESTION 1

Refer to the exhibit.

```
import requests
import sys
r = requests.get(URL)
[REDACTED]:
sys.exit('You do not have permission')
```

A network engineer needs to handle API errors in their requests when users do not have permission to access the resource, even if they are authenticated and authorized. Which line of code needs to be placed on the snippet where the code is missing to handle these API errors?

- A. if r.status_code == 403
- B. if r.raise_for_status() == 403
- C. if r.raise_for_status() = 401
- D. if r.status_code = 401

Correct Answer: B

QUESTION 2

```
{
  "errors": {
    "error": {
      {
        "error-message": "object is not writable: /rt:routing-
state/rt:routing-instance",
        "error-path": "/ietf-routing:routing-state/routing-instance=default",
        "error-tag": "malformed-message",
        "error-type": "application"
      }
    }
  }
}
```

<https://ios-xe-mgmt-latest.cisco.com:9443/restconf/data/ietf-routing:routing-state/routing-instance=default>

Refer to the exhibit above and click on the IETF Routing tab in the top left corner to help with this question. A developer is trying to update the routing instance by adding a new route to the routes list using the URL in the exhibit. What action must be taken to fix the error being received?

- A. Fix the body being sent to update the routes list.
- B. Update the authorization credentials.
- C. Change the url to `\\\/ietf-routing:routing/routing-instance=default\\\/`.
- D. Change the URL to `\\\/ietf-routing:routing-instance/default\\\/`.
- E. Change the HTTP Method being used to make the change

Correct Answer: C

QUESTION 3

DRAG DROP

Refer to the exhibit. Drag and drop the parts of the Python code from the left onto the item numbers on the right that match the missing sections in the exhibit that consumes REST API pagination.

```
def process_all_pages(url):  
    data = []  
    try:  
        response = requests.get(url)  
        if <item 1> == 200:  
            while <item 2>:  
                response = requests.get(<item 3>)  
                response.raise_for_status()  
                data.append(response.json())  
            return data  
    except Exception as e:  
        print("Server returned non-200 OK response during pagination")
```

Select and Place:

Answer Area

| | |
|-------------------------------|----------|
| response.status_code | <item 1> |
| response.links['next']['url'] | <item 2> |
| response.headers.get('Link') | <item 3> |

Correct Answer:

Answer Area

| | |
|--|-------------------------------|
| | response.status_code |
| | response.headers.get('Link') |
| | response.links['next']['url'] |

QUESTION 4

Where must the data be encrypted to ensure end-to-end encryption when using an API?

- A. on the device that consumes the API
- B. on the source device before transmission
- C. on the end device after a request is received
- D. on the server that stores the data

Correct Answer: A

QUESTION 5

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to construct a UCS XML API request to generate two service profiles from the template org- root/is-service-template. Not at options are used.

Select and Place:

```
<lsInstantiateNNamedTemplate
  dn="org-root/ls-service-template"
  cookie="<cookie>"
  inTargetOrg="org-root"
  inHierarchical= [ ] >
  <inNameSet>
    < [ ] ="service-profile-a"/>
    <dn value= [ ] />
    < [ ] >
  </lsInstantiateNNamedTemplate>
```

- | | |
|--|--|
| <input type="text" value="service-profile-b"/> | <input type="text" value="yes"/> |
| <input type="text" value="dn value"/> | <input type="text" value="/outNameSet"/> |
| <input type="text" value="/inNameSet"/> | <input type="text" value="add profile"/> |
| <input type="text" value="no"/> | |

Correct Answer:

```

<lsInstantiateNamedTemplate
  dn="org-root/ls-service-template"
  cookie="<cookie>"
  inTargetOrg="org-root"
  inHierarchical= [input] >
  <inNameSet>
    < [input] dn value ="service-profile-a"/>
    <dn value= [input] "service-profile-b" />
    < [input] /inNameSet >
</lsInstantiateNamedTemplate>
    
```


QUESTION 6

What is a characteristic of a monolithic architecture?

- A. It is an application with multiple independent parts.
- B. New capabilities are deployed by restarting a component of the application.
- C. A service failure can bring down the whole application.
- D. The components are platform-agnostic.

Correct Answer: C

Explanation: A monolithic app can be platform-agnostic but it's not mandatory. But if the app is monolithic, a service failure (such as storage or network) will bring down the whole app/service. This is unlike the distributed application architecture where failure of one microcomponent can be detected and fixed dynamically.

QUESTION 7

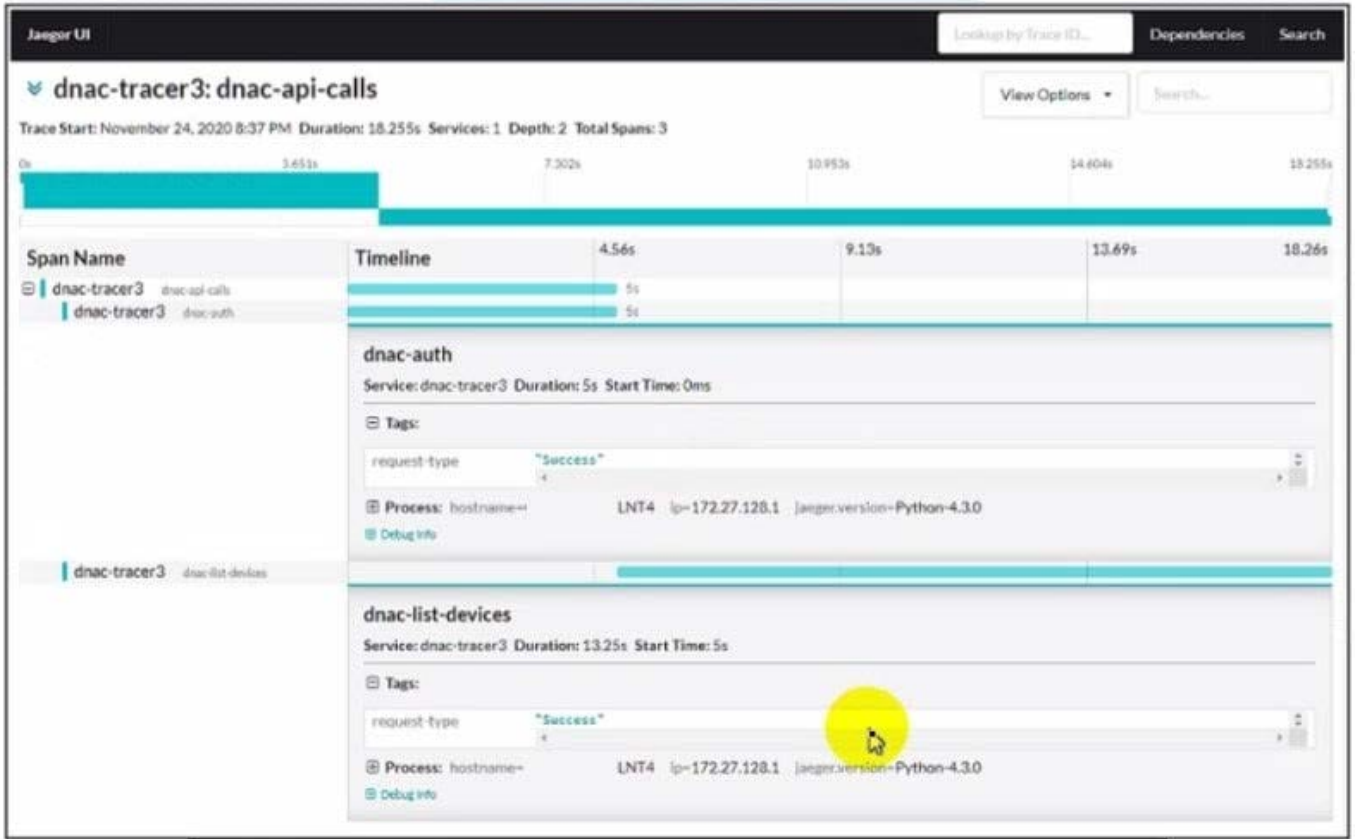
When end-to-end encryption is implemented, which area is most vulnerable to exploitation?

- A. cryptographic key exchange
- B. endpoint security
- C. cryptographic key generation
- D. security of data in transit

Correct Answer: B

QUESTION 8

Refer to the exhibit An application is developed to perform multiple API calls. The calls will be performed on the infrastructure devices Delays in the information transfer occur when the application is executed. What are two reasons for the issue? (Choose two)



```
1 def init_tracer(service):
2     logging.getLogger('').handlers = []
3     logging.basicConfig(format='%(message)s', level=logging.DEBUG)
4     config = Config(
5         config={'sampler': {'type': 'const', 'param': 1}, 'logging': True,},
6         service_name=service,)
7     return config.initialize_tracer()
8
9
10 tracer = init_tracer('dnac-tracer')
11 base_url = 'https://sandboxdnac.cisco.com/'
12
13 with tracer.start_span('dnac-api-calls') as span:
14     with tracer.start_span('dnac-auth', child_of=span) as site_span:
15         try:
16             dnac = DNACenterAPI(username='devnetuser', password='Cisc0123!',
17                                 base_url=base_url, version='1.3.3',
18                                 verify=False)
19             print('auth passed')
20             site_span.set_tag('request-type', 'Success')
21         except Exception as e:
22             print('failed')
23             site_span.set_tag('request-type', e)
24
25 with tracer.start_span('dnac-list-devices', child_of=span) as site_span:
26     try:
27         devices = [dnac.devices.get_device_list() for device in devices]
28         print(devices)
29         site_span.set_tag('request-type', 'Success')
30     except Exception as e:
31         print('Failed to list devices')
32         site_span.set_tag('request-type', e)
```

- A. The list devices API call is failing and does not return a result
- B. Listing devices takes longer than usual due to high network latency
- C. One of the API calls takes roughly three times as long to complete
- D. The list devices API call is inefficient and should be refactored

E. The requests are being rate limited to prevent multiple calls causing the excessive load

Correct Answer: BC

QUESTION 9

A client is written that uses a REST API to interact with a server. Using HTTPS as the transport, an HTTP request is sent and received an HTTP response. The response contains the HTTP response status code: 503 Service Unavailable.

Which action is the appropriate response?

- A. Add an Authorization header that supplies appropriate credentials and sends the updated request.
- B. Resend the request using HTTP as the transport instead of HTTPS.
- C. Add an Accept header that indicates the content types that the client understands and send the updated request.
- D. Look for a Retry-After header in the response and resend the request after the amount of time indicated.

Correct Answer: D

QUESTION 10

Refer to the exhibit.

```
$ docker service scale cisco_devnet=5
cisco_devnet scaled to 5
$ docker service ps cisco_devnet
```

| ID | NAME | SERVICE | IMAGE | LAST |
|--------------|----------------|---------------|-------------|------------|
| STATE | DESIRED STATE | NODE | | |
| d61834d1d0ce | cisco_devnet.1 | cisco_devnet | devnet/test | Running 25 |
| minutes | Running | dc1.cisco.com | | |
| a8479669efee | cisco_devnet.2 | cisco_devnet | devnet/test | Running 25 |
| minutes | Running | dc1.cisco.com | | |
| 0a9abcd93c47 | cisco_devnet.3 | cisco_devnet | devnet/test | Running 25 |
| minutes | Running | dc2.cisco.com | | |
| ef60dad56be | cisco_devnet.4 | cisco_devnet | devnet/test | Running 5 |
| minutes | Running | dc3.cisco.com | | |
| 88dd012de364 | cisco_devnet.5 | cisco_devnet | devnet/test | Running 5 |
| minutes | Running | dc4.cisco.com | | |

A developer runs the docker service scale command to increase the number of replicas for the cisco_devnet service. The swarm cluster is using a private IP address subnet. The service has these design requirements:

It must be hosted behind a virtual IP address that is reachable from the Internet. For security reasons, the Docker swarm cluster subnet must not be reachable from the Internet.

Which design approach is used to fulfill the requirements?

- A. Create an overlay network by using a globally routable subnet and enable a routing mesh within the swarm cluster.
- B. Create a bridge network by using a globally routable subnet and enable a routing mesh within the swarm cluster.
- C. Configure an external load balancer to route requests to the swarm service by using VPN.
- D. Configure an external load balancer to route requests to the swarm service by using NAT.

Correct Answer: A

QUESTION 11

Refer to the exhibit.

```
headers = ( _____ )
try:
    response = requests.get("https://sandboxnac.cisco.com/dna/intent/api/v1/wireless/profile",
        headers=headers, verify=False)
except requests.exceptions.RequestException as cerror:
    print("Error processing request", cerror)
sys.exit(1)
```

Which code snippet is required in the headers to successfully authorize wireless information from Cisco DNA Center?

- A. headers = {'X-auth-token': 'fa8426a0-8eaf-4d22-8e13-7c1b16a9370c'}
- B. headers = {'Authorization': 'Basic YWRtaW46R3JhcGV2aW5IMQ=='}
- C. headers = {'Authorization': 'Bearer ASDNFALKJER23412RKDALSNKF'}
- D. headers = {'Content-type': 'application/json'}

Correct Answer: A

QUESTION 12

Refer to the exhibit.

```
from paramiko import SSHClient
from os import environ

host = ["N3172-TOR-01.widgets.com", "N3172-TOR-02.widgets.com", "N9336C-LEAF-01.widgets.com",
        "N31108-BORDER-LEAF-01.widgets.com"]
backup_server = "central-server-01.widget.com"

class ConnectionManager:

    def nc(u, p):
        client = SSHClient()
        return client.connect(host, username=u, password=p)

    def nc(key):
        client = SSHClient()
        return client.connect(host, pkey=key)

if __name__ == "__main__":
    cm = ConnectionManager()
    for i in host:
        try:
            if i.index("TOR") != -1:
                conn = cm.nc(environ["PRIVATE_KEY"])
            else:
                conn = cm.nc(environ["USER"], environ["PASSWD"])
                conn.exec_command(f"copy running-config scp://{backup_server}/backups/{i}")
        except Exception as e:
            print(f"The host {i} failed to backup properly. {(str(e))}")
        else:
            conn.close()
```

A developer must review an intern's code for a script they wrote to automate backups to the storage server. The script must connect to the network device and copy the running- config to the server.

When considering maintainability, which two changes must be made to the code? (Choose two.)

- A. Rename the class to "ArchiveManager".
- B. The code is incorrect because the class does not have an `__init__()` method.
- C. The command sent to the network device is incorrect.
- D. Refactor the code placing the "for" loop steps inside a single `nc` method.
- E. The intern must use IP addresses because DNS is unreliable.

Correct Answer: CD

QUESTION 13

DRAG DROP

A paginated endpoint in the API accepts in 3 special query parameters:

- `perPage`: The number of entries to be returned in the page (the current request)
- `startingAfter`: A token used by our server to indicate the starting "identifier" of the page (i.e. the data we return in this request will start immediately after the entry with this "identifier")
- `endingBefore`: A token used by our server to indicate the ending "identifier" of the page (i.e. the data we return in this request will end immediately before the entry with this "identifier")

The actual types of the `startingAfter` and `endingBefore` identifiers will vary depending on the API endpoint. However, they typically fall into 2 categories:

- **Timestamps**: The values of `startingAfter` and `endingBefore` are timestamps if we're paginating based on time. In other words, each entry returned in the response has some timestamp value associated with it, and each request returns a fixed number of these entries based on the value of the `perPage` parameter. We use timestamps as the "boundaries" between pages.
 - For example, the current page might contain entries with timestamps ranging from exactly 2 days ago to exactly 1 day ago. The previous page might be referred to by { `endingBefore: <2 days ago>` }, and the next page might be referred to by { `startingAfter: <1 day ago>` }
 - For example, the current page might contain 5 entries with integer IDs ranging from 101 to 105 inclusive. The previous page might be referred to by { `endingBefore: 101` }, and the next page might be referred to by { `startingAfter: 105` }

Refer to the exhibit Drag and drop the code from the bottom onto the box where the code is missing to query the last 10 Bluetooth clients seen by APs in their network using the Meraki Dashboard API Not all options are used.

Select and Place:

```
import requests
URL = 'https://api.meraki.com/api/v0/networks/NETWORK/'
r = requests. [ ] (URL + ' [ ] ?
               [ ]
               perPage= [ ] =0')
print( [ ] )
```

[get] [10endingBefore] [clients.mac]
[bluetoothClients] [r.text] [bluetooth]

Correct Answer:

```
import requests
URL = 'https://api.meraki.com/api/v0/networks/NETWORK/'
r = requests. [ ] (URL + ' [ ] ?
               [ ]
               [ ]
               [ ]
print( [ ] )
```

[] clients.mac

[] r.text [] bluetooth

QUESTION 14

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing on the Ansible task to enable a VLAN on a Meraki MX Device, Not all options are used

Select and Place:

Answer Area

```

- name: Create combined network
  meraki_network:
    auth_key: "{{ meraki_api_key }}"
    net_name: "{{ item }}"
    org_id: "{{ meraki_org_id }}"
    type:
      -switch
      -wireless
      -appliance
    timezone: Europe/London
    tags: staging, uk
    loop: "{{ network_ids }}"
    delegate_to: localhost
    register: result

- name: Enable VLAN support on MX
  uri:
    url: "https://api.meraki.com/api/v0/networks/{{ item.data.id }}/vlansEnabledState"
    return_content: yes
    headers:
      X-Cisco-Meraki-API-Key: "{{ meraki_api_key }}"
    body:
      enabled: true
      follow_redirects: all
      status_code: 200
      body_format: json
  
```

| | |
|------------------------------|---------------|
| loop: "{{ result.results }}" | method: PUT |
| when: "{{ result.results }}" | method: PATCH |
| body: application/json | |

Correct Answer:

Answer Area

```

- name: Create combined network
  meraki_network:
    auth_key: "{{ meraki_api_key }}"
    net_name: "{{ item }}"
    org_id: "{{ meraki_org_id }}"
    type:
      -switch
      -wireless
      -appliance
    timezone: Europe/London
    tags: staging, uk
    loop: "{{ network_ids }}"
    delegate_to: localhost
    register: result

- name: Enable VLAN support on MX
  uri:
    url: "https://api.meraki.com/api/v0/networks/{{ item.data.id }}/vlansEnabledState"
    return_content: yes
    headers:
      X-Cisco-Meraki-API-Key: "{{ meraki_api_key }}"
    body:
      enabled: true
      follow_redirects: all
      status_code: 200
      body_format: json
    method: PUT
  delegate_to: localhost
  loop: "{{ result.results }}"

```

```

when: "{{ result.results }}"
method: PATCH
body: application/json

```

Target Place 1: method : put

Target Place 2: loop : {{request.results}}

QUESTION 15

Which transport layer protocol does gRPC use to retrieve telemetry information?

- A. SSH
- B. SNMP
- C. TCP
- D. HTTP/2

Correct Answer: D

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