



# 350-901<sup>Q&As</sup>

Developing Applications Using Cisco Core Platforms and APIs  
(DEVCOR)

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## QUESTION 1

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 2

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

---

### QUESTION 3

A developer creates an application for a Cisco Catalyst 9000 switch in a Docker container. Which action must be taken to host the application on the switch?

- A. Copy the application code to a NETCONF file and upload the file to the switch
- B. Connect the switch to Cisco DNA Center and push the application through the platform.
- C. Use the Cisco IOxClient tool to export the application to a ZIP file and push the file to the switch
- D. Export the application as a TAR file and import the file to the switch

Correct Answer: D

---

### QUESTION 4

Into which two areas are AppDynamics APIs categorized? (Choose two.)

- A. application-centric
- B. analytics-events
- C. database-visibility
- D. platform-side
- E. agent-side

Correct Answer: DE

---

### QUESTION 5

DRAG DROP



Drag and drop the REST API authentication method from the left to the description on the right

Select and Place:

HTTP basic authentication	public API resource
token-based authentication	username and password in an encoded string
secure vault	API-dependent secret
OAuth	authorization through identity provider

Correct Answer:

	secure vault
	HTTP basic authentication
	OAuth
	token-based authentication

### QUESTION 6

DRAG DROP

A developer must containerize a Python application to integrate into a prebuilt CD environment by creating a Docker image. It will be hosted as a web application to enable end users from accessing it remotely. Drag and drop the code from the bottom onto the box where the code is missing in the Docker file. Not all options are used.

Select and Place:



```
 python:3.6-alpine  
  
RUN mkdir -p /usr/src/app  
WORKDIR /use/src/app  
  
COPY . /usr/src/app  
  
 8080  
  
 ["python3"]  
  
 ["-m", "server"]
```

CMD

ENTRYPOINT

FROM

EXPOSE

EXEC

PORT

Correct Answer:



```
FROM python:3.6-alpine

RUN mkdir -p /usr/src/app
WORKDIR /usr/src/app

COPY . /usr/src/app

EXPOSE 8080

ENTRYPOINT ["python3"]

CMD ["-m", "server"]
```

EXEC PORT

**QUESTION 7**

A developer is working in a branch to develop a new feature named `newfeat404880077`. A file named `devcoreg13642911.jpg` has accidentally been staged. This needs to be removed so that the commit is performed and branches merged. Which git command must be used to unstage the file?

- A. git delete HEAD devcoreg13642911.jpg
- B. git remove HEAD devcoreg13642911.jpg
- C. git reset HEAD devcoreg13642911.jpg
- D. git revert HEAD devcoreg13642911.jpg

Correct Answer: C



### QUESTION 8

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:



```
<lsInstantiateNNamedTemplate
  dn="org-root/ls-service-template"
  cookie="<cookie>"
  inTargetOrg="org-root"
  inHierarchical= [input="no"] >
  <inNameSet>
    < [input="dn value"] ="service-profile-a"/>
    <dn value= [input="service-profile-b"] />
  < [input="/inNameSet"] >
</lsInstantiateNNamedTemplate>
```

  
  
  
  
  

**QUESTION 9**

What is the function of dependency management?

- A. separating code into modules that execute independently
- B. utilizing a single programming language/framework for each code project
- C. automating the identification and resolution of code dependencies
- D. managing and enforcing unique software version names or numbers

Correct Answer: A

**QUESTION 10**

DRAG DROP



Drag and drop the code from the bottom onto the box where the code is missing in the Python script to execute a REST API call to query all the NTP policy names and print the name of each policy. Not all options are used.

Select and Place:

```
import requests, json
from intersight_auth import IntersightAuth

AUTH = IntersightAuth(
    secret_key_filename= '/tmp/secretfile.txt',
    api_key_id= 'api-key-id')
URL= 'https://www.intersight.com/api/v1/'

operations = [ {"resource_path": " ",
                "request_method": "GET" } ]

:

response = None
if operation['resource_path'] == "ntp/Policies":
    response = requests.get( )

    = response.json()

for key, value in jsonResponse.items():
    if key = "Name":
        print(value)
```

- for operation in operations
- URL+operation  
['resource\_path'],auth=AUTH
- jsonResponse
- URL+operation[resource\_path],  
auth=api\_key\_id
- ntp/Policies
- response.json
- for each operations



Correct Answer:

```
import requests, json
from intersight_auth import IntersightAuth

AUTH = IntersightAuth(
    secret_key_filename= '/tmp/secretfile.txt',
    api_key_id= 'api-key-id')
URL= 'https://www.intersight.com/api/v1/'

operations = [ {"resource_path": " ntp/Policies ",
               "request_method": "GET" } ]

for operation in operations :
    response = None
    if operation['resource_path'] == "ntp/Policies":
        response = requests.get( URL+operation
                                ['resource_path'],auth=AUTH )

        jsonResponse = response.json()

    for key, value in jsonResponse.items():
        if key = "Name":
            print(value)
```

Blank input box

Blank input box

Blank input box

URL+operation[resource\_path],  
auth=api\_key\_id

Blank input box

response.json

for each operations



### QUESTION 11

#### DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to provision a new Cisco Unified Computing System server by using the UCS XML API. Options may be used more than once. Not all options are used.

Select and Place:

```
import requests

url = "https://209.165.200.231"

payload = ' ' '
  < [ ]
    dn= "org-root/vcs-service-templ-001"
    cookie= "<real_cookie>"
    inTargetOrg= "org-root"
    [ ] = "vcs001"
    inHierarchical= "no">
  </ [ ] >
' ' '
headers = {
  'Accept': 'application/xml',
}

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

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

- |   |   |  |
|---|---|--|
| <input type="text" value="lsDeployTemplate"/> | <input type="text" value="inDeployServerName"/> | <input type="text" value="lsInstantiateTemplate"/> |
| <input type="text" value="POST"/>             | <input type="text" value="inServerName"/>       | <input type="text" value="PUT"/>                   |

Correct Answer:



```
import requests

url = "https://209.165.200.231"

payload = ' ' '
  < lsInstantiateTemplate
    dn= "org-root/vcs-service-templ-001"
    cookie= "<real_cookie>"
    inTargetOrg= "org-root"
    inServerName = "vcs001"
    inHierarchical= "no">
  </ lsInstantiateTemplate >
' ' '
headers = {
  'Accept': 'application/xml',
}

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

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

lsDeployTemplate	inDeployServerName	lsInstantiateTemplate
"POST"	inServerName	"PUT"

**QUESTION 12**

DRAG DROP



```
import threading
import requests

def get_device_list(endpoint, apikey):
    url = "https://api.meraki.com/api/v0/networks/" + endpoint
    hdr = {'x-cisco-meraki-api-key': format(str(apikey)), 'Content-Type':
'application/json'}
    response = requests.get(url=url, headers=hdr)
    print(response.json())

if __name__ == "__main__":
    # creating thread
    thread = <item 1>(<item2>=get_device_list,

<item 3>=("NETWORK_ID/devices", "API_TOKEN"))

    thread.<item 4>
    thread.<item 5>
```

Refer to the exhibit. Python threading allows a developer to have different parts of a program run concurrently and simplify a design. Drag and drop the code snippets from the left onto the item numbers on the right that match the missing sections in the exhibit to create a thread instance.

Select and Place:

### Answer Area

join()	<item 1>
threading.Thread	<item 2>
start()	<item 3>
target	<item 4>
args	<item 5>

Correct Answer:



### Answer Area


- threading.Thread
- target
- args
- start()
- join()

### QUESTION 13

A developer has built a Docker image named `devcor73f3e94529v` using the Dockerfile named `devcor42f5e464771` and now needs to containerize it. Which command must the developer use?

- A. `docker run -name devcor73f3e945291 -i -t devcorapp`
- B. `docker run -name devcorapp i -t devcor73f3e945291`
- C. `docker build --name devcorapp -i devcor73f3e945291`
- D. `docker build -name devcor73f3e945291 -i devcorapp`

Correct Answer: B

### QUESTION 14

Refer to the exhibit.



```
if self.response.status_code == 429 and tries < self.request_retries:
    try:
        retry_after = 
    except Exception:
        retry_after = 1

    print(f'Waiting for {retry_after} second(s) ...')
    sleep(retry_after)
    continue
```

Which line of code needs to be placed on the snippet where the code is missing to provide API rate-limiting to the requests?

- A. `int(self.response.headers.post(\\'Retry-After\\'))`
- B. `int(response.headers.get(\\'Retry-After\\'))`
- C. `int(self.response.headers.get(Retry-After\\'))`
- D. `int(response.headers.post(\\'Retry-After\\'))`

Correct Answer: C

#### QUESTION 15

A developer releases a new application for network automation of Cisco devices deployed in a local data center. The application utilizes complex design patterns such as microservices that host multiple third-party libraries and programming languages. The development must be simplified by implementing an observability- driven development lifecycle. Which two considerations must be taken to meet the requirements? (Choose two.)

- A. which KPIs to monitor
- B. description of low-level errors
- C. relevant metrics to expose
- D. which monitoring tools to use
- E. identifying customer priorities

Correct Answer: AC

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