

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

Developing Applications Using Cisco Core Platforms and APIs  
(DEVCOR)

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**QUESTION 1**

**DRAG DROP**

Drag and drop the steps from the left into the order on the right to create the workflow to retrieve the gateway information from a set of Cisco IOS devices. Not all options are used.

Select and Place:

Apply the cisco_ios class on each primary node.	step 1
Run the puppet agent -t command on each agent.	step 2
Apply the cisco_ios class on each Puppet agent.	step 3
Run the puppet agent -t command on each primary.	step 4
Run the puppet device --target cisco.example.com --resource gateway command.	step 5
Apply the cisco_ios class on each proxy Puppet agent.	

Correct Answer:

	Apply the cisco_ios class on each primary node.
	Apply the cisco_ios class on each Puppet agent.
	Run the puppet agent -t command on each primary.
	Run the puppet agent -t command on each agent.
	Run the puppet device --target cisco.example.com --resource gateway command.
Apply the cisco_ios class on each proxy Puppet agent.	

**QUESTION 2**

What are two methods for sending bearer access tokens in resource requests to servers? (Choose two)

- A. in plaintext for user access
- B. in the HTTP API schema
- C. in the HTTP request entity-body
- D. in the "Authorization" request header field
- E. in the HTTP request URI

Correct Answer: CD

**QUESTION 3**

What is a well-defined concept for GDPR compliance?

- A. Records that are relevant to an existing contract agreement can be retained as long as the contract is in effect.
- B. Data controllers must confirm to data subjects as to whether where, and why personal data is being processed.
- C. Personal data that was collected before the compliance standards were set do not need to be protected.

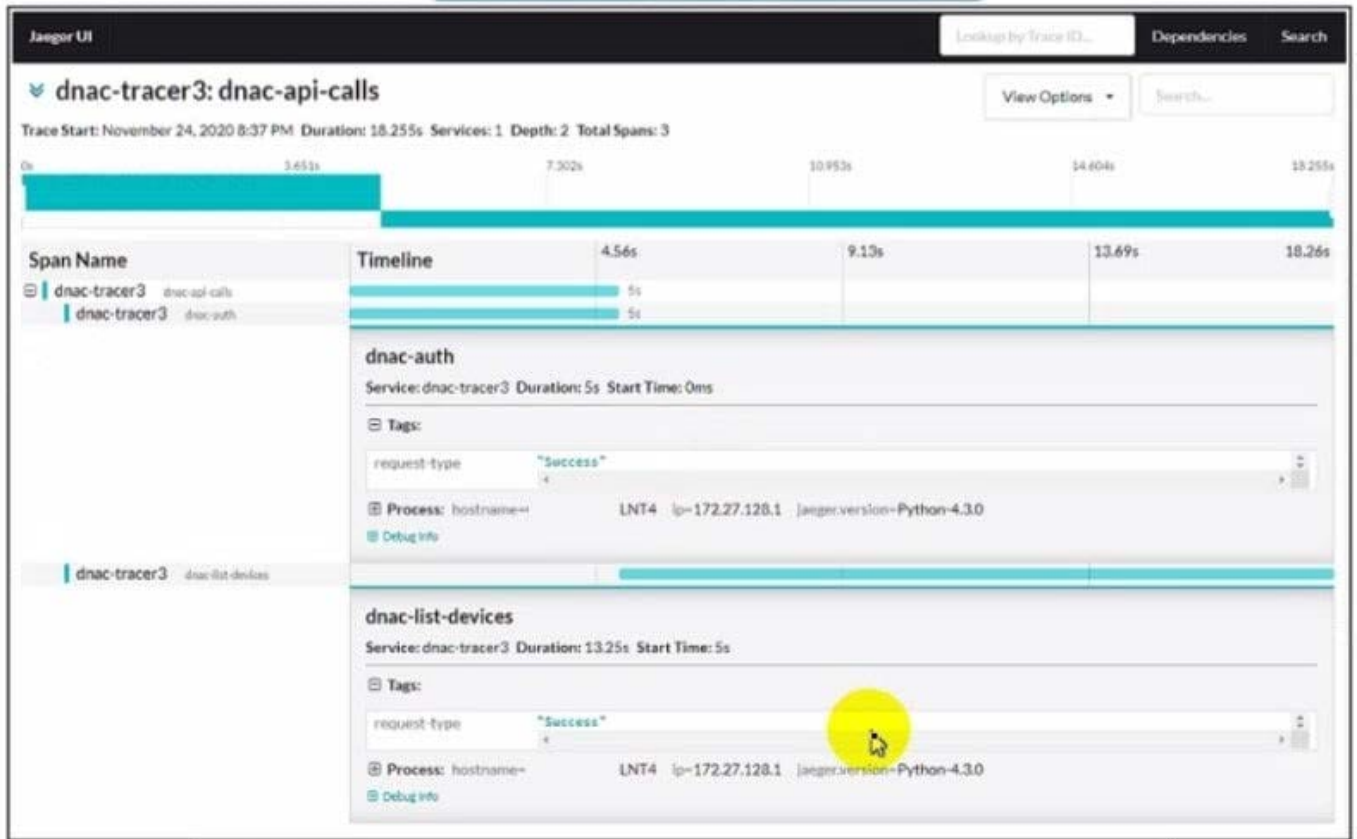
D. Compliance standards apply to organizations that have a physical presence in Europe.

Correct Answer: B

---

#### QUESTION 4

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='Cisco123!',
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 5**

Refer to the exhibit.

```
apiVersion: v1
clusters:
- cluster:
  certificate-authority: fake-ca-file
  server: https://1.2.3.4
  name: development
- cluster:
  insecure-skip-tls-verify: true
  server: https://5.6.7.8
  name: scratch
contexts:
- context:
  cluster: development
  namespace: frontend
  user: developer
  name: dev-frontend
- context:
  cluster: development
  namespace: storage
  user: developer
  name: dev-storage
- context:
  cluster: scratch
  namespace: default
  user: experimenter
  name: exp-scratch
current-context: ""
kind: Config
preferences: {}
users:
- name: developer
  user:
    client-certificate: fake-cert-file
    client-key: fake-key-file
- name: experimenter
  user:
    password: some-password
    username: exp
```

A kubeconfig file to manage access to Kubernetes clusters is shown. How many Kubernetes clusters are defined in the file, and which cluster FS accessed using username/password authentication rather than using a certificate?



- A. three dusters; scratch
- B. three clusters: development
- C. two dusters; development
- D. two clusters: scratch

Correct Answer: D

### QUESTION 6

Application sometimes store configuration as constants in the code, which is a violation of strict separation of configuration from code. Where should application configuration be stored?

- A. environment variables
- B. YAML files
- C. Python libraries
- D. Dockerfiles
- E. INI files

Correct Answer: A

### QUESTION 7

Refer to the exhibit.

`$filter { string }` query

Filter criteria for documents to return. A URI with a \$filter System Query Option identifies a subset of the Entries from the Collection of Entries identified by the Resource Path section of the URI. The subset is determined by selecting only the Entries that satisfy the predicate expression specified by the query option. The expression language that is used in \$filter operators supports references to properties and literals. The literal values can be strings enclosed in single quotes, numbers and boolean values (true or false) or any of the additional literal representations shown in the Abstract Type System section. Query examples: `$filter=Name eq 'Bob'` `$filter=Tags/any(t: t/Key eq 'Site')` `$filter=Tags/any(t: t/Key eq 'Site' and t/Value eq "London")`

---

`GET /api/v1/compute/RackUnits?$filter=Tags/any (t:t/Key eq 'Site')`

An Intersight API is being used to query RackUnit resources that have a tag keyword set to "Site". What is the expected output of this command?



- A. list of all resources that have a tag with the keyword "Site"
- B. error message because the Value field was not specified
- C. error message because the tag filter should be lowercase
- D. list of all sites that contain RackUnit tagged compute resources

Correct Answer: A

### QUESTION 8

Refer to the exhibit.

```
response = requests.post(url)
[ ]
backoff = 5
time.sleep(int(backoff))
response = requests.post(url)
while response.status_code != 200 and backoff < 80:
    backoff *= 2
    time.sleep(int(backoff))
    response = requests.post(url)
else:
    continue
```

An engineer needs to implement REST API error handling when a timeout or rate limit scenario is present. Which code snippet must be placed into the blank in the code to complete the API request?

Ⓐ

```
if response.status_code == 429:  
    wait = response.headers.get('Retry-After', 99)  
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')  
    time.sleep(int(wait))  
    response = requests.post(url)  
elif response.status_code == 408:
```

Ⓑ

```
if response.status_code == 401:  
    wait = response.headers.get('Retry-After', 99)  
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')  
    time.sleep(int(wait))  
    response = requests.post(url)  
elif response.status_code == 408:
```

Ⓒ

```
if response.status_code == 408:  
    wait = response.headers.get('Retry-After', 99)  
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')  
    time.sleep(int(wait))  
    response = requests.post(url)  
elif response.status_code == 429:
```

Ⓓ

```
if response.status_code == 429:  
    wait = response.headers.get('Retry-After', 99)  
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')  
    time.sleep(int(wait))  
    response = requests.post(url)  
elif response.status_code == 401:
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

## QUESTION 9

### DRAG DROP

Refer to the exhibit. The Python script is supposed to make an API call to Cisco DNA Center querying a wireless profile for the "ChicagoCampus" and then parsing out its enable FlexConnect value. 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.

GET	/dna/intent/api/v1/wireless/profile	Get Wireless Profile
Gets either one or all the wireless network profiles if no name is provided for network-profile.		
<b>Parameters</b>		
Name	Description	
profileName string (query)	<i>Default value:</i>	
<b>Responses</b>		
Code	Description	
200	The request was successful. The result is contained in the response body.	
<b>Example Value Model</b>		
<pre>[   {     "profileDetails": {       "name": "string",       "sites": [         "string"       ],       "ssidDetails": [         {           "name": "string",           "type": "Guest",           "enabledFabric": true,           "flexConnect": {             "enableFlexConnect": true,             "localToVlan": 0           },           "interfaceName": "string"         }       ]     }   } ]</pre>		

```
import requests
import json

def get_dnac_wireless_profiles():
    try:
        url = "https://sandboxdnac2.cisco.com/dna/intent/api/v1 \
+ "/wireless/profile?<item1>=ChicagoCampus|"

        print(token)
        payload = {}
        headers = {
            'x-auth-token': token
        }

        response = requests.request("GET", url, headers=headers, data = payload)
        response.raise_for_status()
        return response.json()[0][<item 2>][<item 3>] \
[<item 4>][<item 5>][<item 6>"]

    except Exception as e:
        print(e)

def create_dnac_token():
    try:
        url = "https://sandboxdnac2.cisco.com/dna/system/api/v1/auth/token"

        payload = {}
        headers = {
            'Authorization': 'Basic ZGV2bmV0dXNlcjpwDaXNjbzEyMyE= ',
            'Content-Type': 'application/json'
        }

        response = requests.request("POST", url, headers=headers, data = payload)
        response.raise_for_status()
        return response.json()["Token"]

    except Exception as e:
        print(e)

if __name__ == "__main__":
    token = create_dnac_token()
    print(get_dnac_wireless_profiles())
```

Select and Place:

**Answer Area**

0	<item 1>
ssidDetails	<item 2>
profileDetails	<item 3>
profileName	<item 4>
flexConnect	<item 5>
enableFlexConnect	<item 6>

Correct Answer:

**Answer Area**

	profileName
	profileDetails
	ssidDetails
	0
	flexConnect
	enableFlexConnect

**QUESTION 10**

Refer to the exhibit.

```
using GIT ASKPASS to set credentials
> git fetch --tags --force --progress -- http://73aeel195f715/root/ms-master.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
ERROR: Error fetching remote repo 'origin'
hudson.plugins.git.GitException: Failed to fetch from http://73aeel195f715/root/ms-
master.git
    at hudson.plugins.git.GitSCM.fetchFrom(GitSCM.java:908)
    at hudson.plugins.git.GitSCM.retrieveChanges(GitSCM.java:1123)
    at hudson.plugins.git.GitSCM.checkout(GitSCM.java:1159)
    at hudson.scm.SCM.checkout(SCM.java:505)
    at hudson.model.AbstractProject.checkout(AbstractProject.java:1205)
    at
hudson.model.AbstractBuild$AbstractBuildExecution.defaultCheckout(AbstractBuild.java
:574)
    at jenkins.scm.SCMCheckoutStrategy.checkout(SCMCheckoutStrategy.java:86)
    at
hudson.model.AbstractBuild$AbstractBuildExecution.run(AbstractBuild.java:499)
    at hudson.model.Run.execute(Run.java:1853)
    at hudson.model.FreeStyleBuild.run(FreeStyleBuild.java:43)
    at hudson.model.ResourceController.execute(ResourceController.java:97)
    at hudson.model.Executor.run(Executor.java:427)
Caused by: hudson.plugins.git.GitException: Command "git fetch --tags --force --
progress -- http://73aeel195f715/root/ms-master.git
+refs/heads/*:refs/remotes/origin/*" returned status code 128:
stdout:
stderr: remote: GitLab is not responding
fatal: unable to access 'http://73aeel195f715/root/ms-master.git/': The requested URL
returned error: 502
```

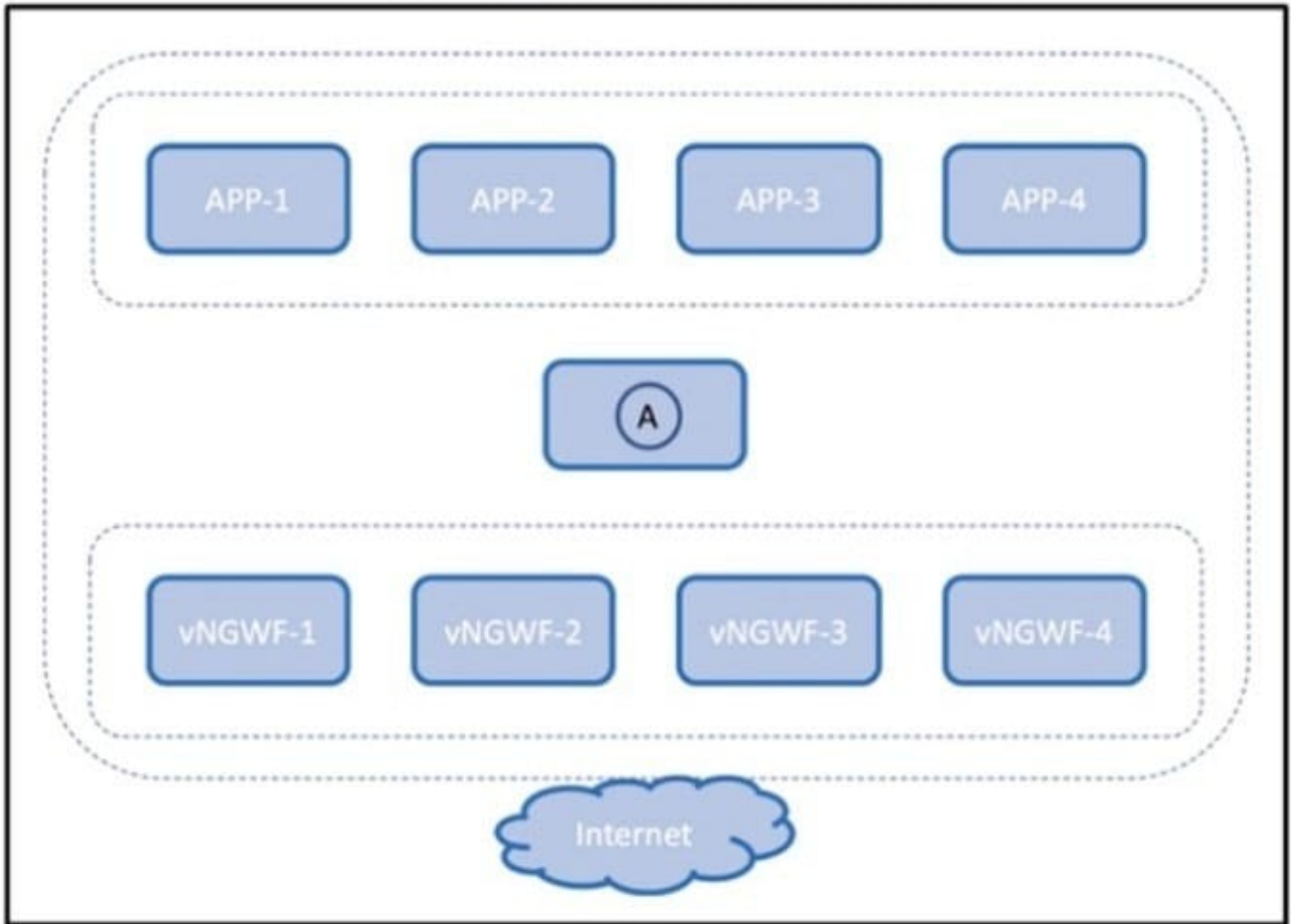
An attempt to execute a CI/CD pipeline results in the error shown. What is the cause of the error?

- A. The VCS repository is unavailable
- B. The unit tests failed to complete
- C. The built artifacts failed to publish to the target server
- D. The remote library repository is unavailable

Correct Answer: D

**QUESTION 11**

Refer to the exhibit.



The virtual next-generation firewalls running in the public cloud must be scaled out to meet the throughput requirements of the application layer. Which component is deployed to location A in the diagram?

- A. frontend caching server
- B. forward proxy
- C. backend database
- D. internal load balancer

Correct Answer: D

#### QUESTION 12

Refer to the exhibit.



```
import requests

url = "https://ics-xe-mgmt.cisco.com:9443/restconf/data/Cisco-IOS-XE-native:native"

headers = {'Authorization': 'Basic 2GV2ZWxvcGVyOkMxc2NvMTIzNDU='}

response = requests.get(url, headers=headers, verify=False)

if response.status_code in [500, 501, 502, 503, 504]:
    print( )
```

An engineer is implementing the response for unrecoverable REST API errors. Which message needs to be placed on the snippet where the code is missing to complete the print statement?

- A. "Error; The server is unable to handle your request." "Error:
- B. The data requested has not been found."
- C. "Error: The rate limit has been exceeded for sending API requests at this time"
- D. "Enor: The server requires authentication to complete this request."

Correct Answer: A

### QUESTION 13

A network operations team is using the cloud to automate some of their managed customer and branch locations. They require that all of their tooling be ephemeral by design and that the entire automation environment can be recreated without manual commands. Automation code and configuration state will be stored in git for change control and versioning. The engineering high-level plan is to use VMs in a cloud- provider environment then configure open source tooling onto these VMs to poll, test, and configure the remote devices, as well as deploy the tooling itself.

Which configuration management and/or automation tooling is needed for this solution?

- A. Ansible
- B. Ansible and Terraform
- C. NSO
- D. Terraform
- E. Ansible and NSO

Correct Answer: B

### QUESTION 14

Refer to the exhibit.





```
import requests
import getpass

device_list = ['192.168.243.1', '192.168.243.2']
port = "8080"

username = input("Enter Username -->")
password = getpass.getpass(prompt="Enter Password: ->")

for device in device_list:
    

    headers = {'Content-Type': 'application/vnd.yang.data+json', \
               'Accept': 'application/vnd.yang.data+json'}

    response = requests.get(url, auth=(username, password), \
                             headers=headers, verify=False)

    print(f"Interfaces present on {device}:")
    for interfaces in response.json():
        print(f"{interfaces}")
```

Cisco IOS XE switches are used across the entire network and the description that is filed for all interfaces must be configured. Which code snippet must be placed in the blank in the script to leverage RESTCONF to query all the devices in the device list for the interfaces that are present?

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

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

D. Option D

Correct Answer: A

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