

350-901^{Q&As}

Developing Applications Using Cisco Core Platforms and APIs
(DEVCOR)

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QUESTION 1

A developer has issued `git add file1 and file2 test.py` command to add the three files for the next commit, but then decides to executed `test.py` from this command. Which command needs to be used to exclude `test.py` from this commit but keep the rest of the files?

- A. `git clean -- test.py`
- B. `git reset - test py`
- C. `git checkout - file1 file2`
- D. `git stash -- file1 file 2`

Correct Answer: B

QUESTION 2

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 velopment 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

QUESTION 3

Refer to the exhibit.

```
Started POST "/users/auth/ldapmain/callback" for 172.17.4.98 at 2021-02-11 21:06:47 +0000
2021-02-11_21:06:49.80956 127.0.0.1 - - [11/Feb/2021:21:06:49 UTC] "GET /sidekiq HTTP/1.1" 200 57318
2021-02-11_21:06:49.80959 - -> /sidekiq
{"severity":"ERROR","timestamp":"2021-02-11T21:06:52.813Z","pid":20966,"progname":"omniauth", \
 "message":"(ldapmain) Authentication failure! ldap_error: Net::LDAP::Error, Connection timed out -
 user specified timeout"}
Processing by OmniauthCallbacksController#failure as HTML
Parameters: {"utf8"=>"✓", "authenticity_token"=>"[FILTERED]", "username"=>"user1",
"password"=>"[FILTERED]"}
Redirected to http://192.168.24.55/users/sign_in
Completed 302 Found in 119ms (ActiveRecord: 32.9ms | Elasticsearch: 0.0ms | Allocations: 40775)
{"method":"POST","path":"/users/auth/ldapmain/callback","format":"html","controller":
"OmniauthCallbacksController","action":"failure","status":302, \
 "location":"http://192.168.24.55/users/sign_in","time":"2021-02-11T21:06:52.934Z",
 "params":[{"key":"utf8","value":"✓"}, \
 {"key":"authenticity_token","value":"[FILTERED]"}, {"key":"username","value":"user1"},
 {"key":"password","value":"[FILTERED]"}], \
 "remote_ip":"172.17.4.98", "user_id":null, "username":null, "ua":"Mozilla/5.0
(Macintosh; Intel Mac OS X 10_15_7; rv:68.0) Gecko/20100101 Firefox/84.0" \
 "redis_shared_state_read_bytes":109,"redis_shared_state_write_bytes":85,"db_count":5,\
 "db_write_count":1,"db_cached_count":0,"queue_duration_s":0.008279,"cpu_s":0.11,"db_duration_s":0.03294,
"view_duration_s":0.0,"duration_s":0.11892}
```

Recently, users have reported problems logging into an application with their usernames and passwords. The logs have captured an authentication attempt. Based on the messages and errors contained, what is the cause of the problem?

- A. The sign-in redirection is sending clients to the wrong server for SSO.
- B. There is a time synchronization issue between the application and LDAP.
- C. Users are providing incorrect credentials when logging in.
- D. The LDAP server used for authentication fails to respond to connection requests

Correct Answer: A

QUESTION 4

What is a benefit of using model-driven telemetry?

- A. enables operational data to be collected at higher rates and a higher scale
- B. enables the application to pull data faster than pushing the data
- C. reduces the load on the server by enabling the client to pull data
- D. simplifies the development of clients by using a single encoding standard for the data

Correct Answer: D

QUESTION 5

```
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 accesspoints` 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 6

What is a benefit of continuous testing?

- A. decreases the frequency of code check-ins
- B. removes the requirement for test environments
- C. enables parallel testing
- D. increases the number of bugs found in production

Correct Answer: C

QUESTION 7

A developer must recommend an appropriate tool to deploy a configuration to hundreds of servers. The configuration management solution must meet these requirements.

The servers must initiate the connection to obtain updates The configuration must be defined in a declarative style Which tool should be used?

- A. Chef
- B. Terraform
- C. Puppet
- D. Ansible

Correct Answer: A

QUESTION 8

A developer is working on a bug fix. The existing branch named `bugfix05328` needs to be merged with the current working primary branch named `prim404880077`. All changes must be integrated into a single commit instead of preserving them as individual commits. Which git command must be used?

- A. `git checkout -squash bugfix05328`
- B. `git merge -squash bugfix05328`
- C. `git rebase -merge bugfix05328`
- D. `git push -rebase bugfix05328`

Correct Answer: B

QUESTION 9

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 10

Refer to the exhibit.

```
$ docker node ls
```

ID	HOSTNAME	STATUS
cfcae09c992f *	docker-west-01	Ready
8c15d37dda1f	docker-west-02	Ready
0683c478497b	docker-central-01	Ready
9a30a613f083	Leader	
0ac8a7b59d9a	docker-central-02	Ready
dcd6ecda93d3	docker-east-01	Ready
	docker-east-02	Ready

A Docker swarm cluster is configured to load balance services across data centers in three different geographical regions west central and east. The cluster has three manager nodes and three worker nodes A new service named cisco.devnet is being deployed. The service has these design requirements:

All containers must be hosted only on nodes in the central region The service must run only on nodes that are ineligible for the manager role

Which approach fulfills the requirements?

- A. Create a second swarm cluster that is hosted only in the central region.
- B. Create the service manually in the central region and set replicas to 0.
- C. Use placement constraints to control nodes to which the service can be assigned.
- D. Enable the control flag in the containers of the west and east regions to prevent the service from starting

Correct Answer: D

QUESTION 11

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 12

DRAG DROP

A Python script must query the Cisco DNA center API for the number of unique wireless clients that are exhibiting poor health behavior. Drag and drop the code from the bottom onto the box where the code is missing to complete the script. Not all options are used.

Select and Place:

```

1 import requests as re
2 from base64 import b64encode
3 import json
4
5 host = 'https://sandboxdnac.cisco.com/'
6 auth_ext = 'dna/system/api/v1/auth/token?c
7 health_ext = 'dna/intent/api/v1/
8 user = 'devnetuser'
9 pasw = 'Cisc0123!'
10
11 encoded_auth = b64encode(str.encode(user+':'+pasw)).decode("ascii")
12 head = {'Authorization': 'Basic {}'.format(encoded_auth)}
13 body = None
14 auth_head = {'X-Auth-Token': json.loads(
15     re.request('POST', host+auth_ext, headers=head, data=body, verify=False
16         ).text)['Token']}
17 wireless_health_stats = [
18     score['clientUniqueCount'] for score in
19     [item[''] for item in json.loads(
20         re.request('GET', host + health_ext,
21             headers=auth head, data=body, verify=False).text
22         )['response'][0]['']] if
23     item['scoreCategory']['value'] == ''[0]
24     if score['scoreCategory']['value'] == 'POOR'
25     ][0]
    
```

scoreDetail	WIRELESS	
json.loads	'POST'	scoreList

Correct Answer:


```
1 import requests as re
2 from base64 import b64encode
3 import json
4
5 host = 'https://sandboxdnac.cisco.com/'
6 auth_ext = 'dna/system/api/v1/auth/token?c
7 health_ext = 'dna/intent/api/v1/
8 user = 'devnetuser'
9 pasw = 'Cisc0123!'
10
11 encoded_auth = b64encode(str.encode(user+':'+pasw)).decode("ascii")
12 head = {'Authorization': 'Basic {}'.format(encoded_auth)}
13 body = None
14 auth_head = {'X-Auth-Token': json.loads(
15     re.request('POST', host+auth_ext, headers=head, data=body, verify=False
16         ).text)['Token']}
17 wireless_health_stats = [
18     score['clientUniqueCount'] for score in
19     [item['scoreList'] for item in json.loads(
20         re.request('GET', host + health_ext,
21             headers=auth_head, data=body, verify=False).text
22         )['response'][0]['scoreDetail']] if
23     item['scoreCategory']['value'] == 'WIRELESS'] [0]
24 if score['scoreCategory']['value'] == 'POOR'
25 ] [0]
```

Three empty rectangular boxes for drag-and-drop.

json.loads 'POST' []

QUESTION 13

DRAG DROP

Refer to the exhibit above and click on the resource tabs in the top left corner to view resources to help with this question.

```
#!/usr/bin/python3
import requests, sys

head = { 'Content-Type': '<item 1>',
        'Authorization': 'Bearer NWU4NjQ0ODJkZTIiM...4-ad72cae0e10f' }

res = requests.post(url = 'https://api.ciscopark.com/v1/<item 2>',
                    headers = head, json = { '<item 3>': sys.argv[1] })
spaceId = res.json()['id']

members = [ 'johndoe@example.com', 'janedoe@example.com' ]
for member in members:
    res = requests.post(url='https://api.ciscopark.com/v1/<item 4>',
                        headers = head,
                        json = { 'roomId' spaceId, '<item 5>': member})
```

Create a Room

Creates a room. The authenticated user is automatically added as a member of the room. See the [Memberships API](#) to learn how to add more people to the room.

To create a 1:1 room, use the [Create Messages](#) endpoint to send a message directly to another person by using the `toPersonId` or `toPersonEmail` parameters.

POST /v1/rooms

Body Parameters

title

string **Required**

A user-friendly name for the room.

teamId

string

The ID for the team with which this room is associated.

Create a Membership

Add someone to a room by Person ID or email address; optionally making them a moderator.

POST /v1/memberships

Body Parameters

roomId
string **Required**
The room ID.

personId
string
The person ID.

personEmail
string
The email address of the person.

isModerator
boolean
Whether or not the participant is a room moderator.

A developer is creating a Python Script that will use the Webex Teams REST API to automatically create a new collaboration space with him and his team leads on-demand via a Linux terminal command. Drag and drop the code snippets from the left onto the numbers on the right that match the missing sections in the exhibit to complete the script. Not all code snippets are used.

Select and Place:

Answer Area

application/xml	<item 1>
application/json	<item 2>
name	<item 3>
userName	<item 4>
title	<item 5>
personEmail	
/members	
/memberships	
/rooms	
/spaces	

Correct Answer:

Answer Area

application/xml	application/json
	/rooms
name	title
userName	/memberships
	personEmail
/members	
/spaces	

QUESTION 14

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 15

Which Puppet manifest changes the NTP server and generates the traffic from VLAN 15?

A.

```
ntp_server { '172.30.200.11':  
  ensure      => 'present',  
  key         => 94,  
  prefer      => true,  
  minpoll     => 4,  
  maxpoll     => 14,  
  vlan       => '15',  
}
```

B.

```
ntp_server {  
  ip          => '172.30.200.11',  
  ensure      => 'present',  
  key         => 94,  
  prefer      => true,  
  minpoll     => 4,  
  maxpoll     => 14,  
  source_interface => '15',  
}
```

C.

```
ntp_server { '172.30.200.11':  
  ensure      => 'present',  
  key         => 94,  
  prefer      => true,  
  minpoll     => 4,  
  maxpoll     => 14,  
  source_interface => 'Vlan 15',  
}
```

A. B. C.

```
ntp_server {  
  server      => '172.30.200.11'  
  ensure      => 'present',  
  key         => 94,  
  prefer      => true,  
  minpoll     => 4,  
  maxpoll     => 14,  
  source_interface => 'Vlan 15',  
}
```

D.

Correct Answer: C