

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

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.pv	Α.	ait	clean		test.	ימ	V
----------------------	----	-----	-------	--	-------	----	---

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.

# CERTBUS CERTBUS

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```
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": "2021-02-11721:06:52.8132", "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": "2021-02-11721:06:52.9342",
    "params": [{"key": "utf8", "value": ""}, \
    "key": "authenticity_token", "value": "[FILTERED]"], {"key": "username", "value": "user1"},
    {"key": "password", "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
    ""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":0.003294,
    "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**

```
import MySQLdb

db = MySQLdb.connect(host="localhost",
    user="cisco",
    passwd="cisco",
    db="apdb")

cur = db.cursor()

ap_name = raw_input('Enter AP Name: ')

for row in cur.fetchall():
    print (row)

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?

```
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 name = %s;", (ap_name,))
```

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



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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 la		
ID	HOSTNAME	STATUS
AVAILABILITY	MANAGER STATUS	
cfeae09c992f *	docker-west-01	Ready
Active	Reachable	
8c15d37dda1f	dooker-west-02	Ready
Active		1000
0683c478497b	docker-central-01	Ready
Active	Leader	
9a30a613f083	docker-central-02	Ready
Active		C-0.010037
Oac8a7b59d9a	docker-east-01	Ready
Active	Reachable	
dcd6ecda93d3	docker-east-02	Ready
Active		1000000

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 Anew 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: vl
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

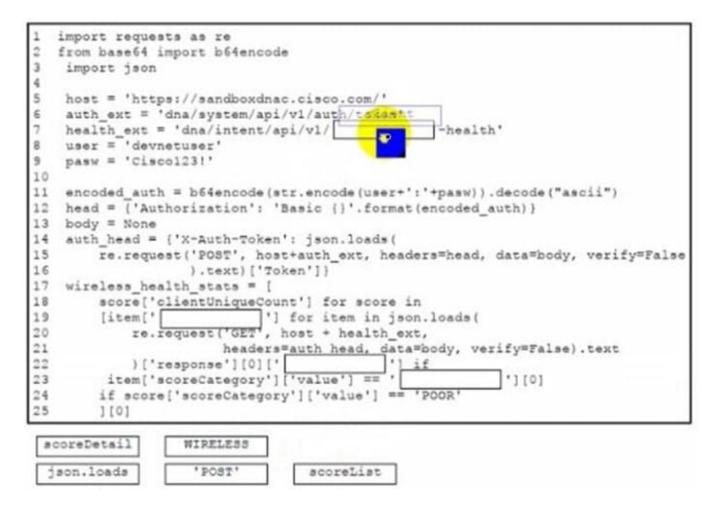
Correct Answer: D

#### **QUESTION 12**

#### **DRAG DROP**

A Python script must guery 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:



Correct Answer:

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1	import requests as re
2	from base64 import b64encode
3	import json
4	
3 4 5	host = 'https://sandboxdnac.cisco.com/'
6	auth_ext = 'dna/system/api/v1/auth/tokenht
7	health_ext = 'dna/intent/api/vl/ -health'
8	user = 'devnetuser'
9	pasw = 'Cisco123!'
8 9 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	1[0]

#### **QUESTION 13**

#### DRAG DROP

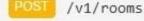
Refer to the exhibit above and click on the resource tabs in the top left corner to view resources to help with this question.



#### 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

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.



#### **Body Parameters**

title

string Required

A user-friendly name for the room.

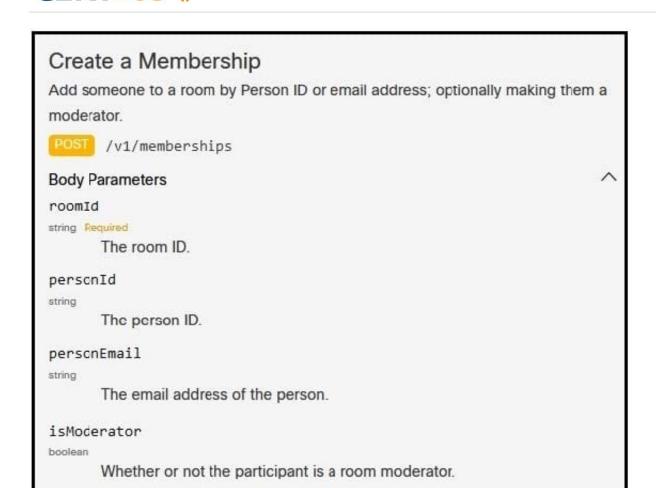
#### teamId

string

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

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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=""></item>
application/json	<item 2=""></item>
name	<item 3=""></item>
userName	<item 4=""></item>
title	<item 5=""></item>
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?

```
ntp_server { '172.30.200.11':
 ensure
                => 'present',
 key
                => 94,
 prefer
                => true,
 minpoll
                => 4,
 maxpol1
                => 14,
                => '15',
  vlan
```

```
B.
    ntp_server {
                        => '172.30.200.11',
      ip
                        => 'present',
      ensure
                        => 94,
      key
      prefer
                        => true,
                        => 4,
      minpoll
                        => 14,
      maxpol1
      source_interface => '15',
```

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

A. B. C.

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

D.

Correct Answer: C

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