

200-901 Q&As

Developing Applications and Automating Workflows using Cisco
Platforms (DEVASC)

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QUESTION 1

What are two advantages of YANG-based approaches for infrastructure automation? (Choose two.)

- A. multi-platform vendor abstraction
- B. compiles to executables that run on network devices
- C. designed to reflect networking concepts
- D. directly maps to JavaScript
- E. command line driven interface

Correct Answer: AC

QUESTION 2

What are two key capabilities of Cisco Finesse? (Choose two.)

- A. Agents access Finesse from a browser without needing to install or configure anything on the client machine.
- B. An OpenDNS utility is preconfigured and ready to use on Finesse.
- C. Gadget containers provide a seamless experience in a single user interface.
- D. Finesse automatically collects telemetry data.
- E. Finesse includes an RPC API that enables the development of custom gadgets.

Correct Answer: AC

QUESTION 3

A developer completed the creation of a script using Git. Before delivering it to the customer, the developer wants to be sure about all untracked files, without losing any information. Which command gathers this information?

- A. `git clean -n`
- B. `git rm -f`
- C. `git clean -r`
- D. `git rm *`

Correct Answer: A

The `-n` option will perform a "dry run" of `git clean`. This will show you which files are going to be removed without actually removing them. It is a best practice to always first perform a dry run of `git clean`.

QUESTION 4

Refer to the exhibit.

```
1  - hosts: servers
2      tasks:
3
4      - name: task1
5          apt:
6              name: apache2
7              state: absent
8
9      - name: task2
10         apt:
11             name: nginx
12             state: present
13
14         - name: task3
15             apt:
16                 name: "*"
17                 state: latest
```

A developer must check packages on web load balancers that use nginx packages. The developer updates the servers as required in Ansible inventory and prepares an Ansible playbook to automate this workflow on related servers. Which process is being automated by the Ansible playbook?

- A. verifying that nginx is installed only if apache2 is unavailable on the system, and then updating all the other packages
- B. verifying, without installing, that apache2 is unavailable and that nginx is installed, and then updating the repository to the latest version
- C. uninstalling the apache2 server, installing the nginx server, and then updating all the packages to the latest version
- D. installing nginx, uninstalling apache2, and then verifying that the package repository is at the latest version

Correct Answer: C

QUESTION 5

DRAG DROP

Refer to the exhibit.

class Native.Interface.FastEthernet

Bases: **Entity**

Class Hierarchy: **Native** **Interface** **FastEthernet**

This class represents configuration data.
 FastEthernet IEEE 802.3

<p>name(key)</p> <p>type: str</p> <p>pattern: (([0-9])/([0-9])/([1-3][0-9] 4[0-8] [0-9])\([0-9]+\))?</p>	<p>flowcontrol</p> <p>Configure flow operation</p> <p>type: Flowcontrol</p>
<p>description</p> <p>Interface specific description</p> <p>type: str</p> <p>pattern: *</p>	<p>isis</p> <p>IS-IS commands</p> <p>type: Isis</p>
	<p>keepalive</p> <p>Enable keepalive</p> <p>type: bool</p>
	<p>keepalive_settings</p> <p>type: KeepaliveSettings</p>

Drag and drop the code snippets from the bottom to the blanks in the code to enable keepalive for the FastEthernet 2/0 interface. Not all options are used.

Select and Place:

```
from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider as nc
from ydk.models.cisco ios xe import Cisco IOS XE native as model
ip = '10.10.20.48'
prtcl = 'ssh'
user = 'developer'
psw = 'P@s$W0rD'
port = 830
provider = nc(address=ip, port=port, username=user, password=psw, protocol=prtcl)
crud = CRUDService()

interface.name = '2/0'


if interface data:
    print('Keepalive is enabled.')
else:
    print('Keepalive is not enabled.')
```

```
interface_data = crud.update(provider, interface)
```

```
interface.keepalive = True
```

```
interface_data = crud.read(provider, interface)
```

```
interface = model.Native.Interface.FastEthernet()
```

```
interface.FastEthernet.keepalive_settings.keepalive =
```

```
interface = model.Native.Interface()
```

Correct Answer:

```

from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider as nc
from ydk.models.cisco ios xe import Cisco IOS XE native as model
ip = '10.10.20.48'
prtcl = 'ssh'
user = 'developer'
psw = 'P@s$W0rD'
port = 830
provider = nc(address=ip, port=port, username=user, password=psw, protocol=prtcl)
crud = CRUDService()
interface = model.Native.Interface.FastEthernet()
interface.name = '2/0'
interface.keepalive = True
interface_data = crud.read(provider, interface)
if interface data:
    print('Keepalive is enabled.')
else:
    print('Keepalive is not enabled.')
    
```

```
interface_data = crud.update(provider, interface)
```

```
interface.FastEthernet.keepalive_settings.keepalive =
```

```
interface = model.Native.Interface()
```

QUESTION 6

Which action resolves a 401 error in response to an HTTP GET that is issued to retrieve a configuration statement using RESTCONF on a CSR 1000V?

- A. Change the HTTP method to PUT.
- B. Check the MIME types in the HTTP headers.
- C. Change the transport protocol to HTTPS.
- D. Check the authentication credentials.

Correct Answer: D

The 401 (Unauthorized) status code indicates that the request has not been applied because it lacks valid authentication credentials for the target resource.

QUESTION 7

A developer is working on a new feature named 'feat434370483' in a branch. A file named 'devasc321345515.jpg' has accidentally been staged. The developer needs to remove this so that the commit is performed and branches are merged. Which Git command must be used to unstage the file?

- A. get delete HEAD devasc321345515.jpg
- B. get reset HEAD devasc321345515.jpg
- C. git remove HEAD devasc321345515.jpg
- D. git revert HEAD devasc321345515.jpg

Correct Answer: B

QUESTION 8

A developer creates a REST API that runs on a load balancer for clients to query information about stocks. The data in the back-end database is updated every 15 minutes, but clients are polling the API every 2 minutes. The developer needs to reduce the load on the database without making changes to the client side. Which constraint must the engineer address?

- A. The load balancer is not configured to use memcached as the primary back end.
- B. Use of Cache-Control headers and max-age validation is not enforced.
- C. Request throttling on the load balancer database is not enabled.
- D. Dynamic IP deny listing, which allows requests every 15 minutes, is not configured.

Correct Answer: B

QUESTION 9

Which application should be used to externally access all applications deployed in the same host machine with a single public IP address and port, when each application listens on different local ports?

- A. reverse proxy
- B. load balancer
- C. DNS
- D. firewall

Correct Answer: A

One option for accessing multiple applications on a single host machine with a single public IP address and port is to use a reverse proxy. A reverse proxy is a type of server that sits in front of one or more backend servers, intercepting traffic from clients and forwarding it to the appropriate backend server.

To use a reverse proxy in this scenario, you would configure the reverse proxy to listen on the public IP address and port, and then configure it to forward traffic to the appropriate local port based on the hostname or URL requested by the client

QUESTION 10

How do XML and JSON compare regarding functionality?

- A. XML provides support for mapping data structures into host languages than JSON.
- B. XML provides more human readability than JSON.
- C. JSON provides support for data types than XML.
- D. JSON natively supports arrays and XML does not natively support arrays.

Correct Answer: B

Option A is incorrect. Both XML and JSON support mapping data structures into host languages, although the specific mechanisms for doing so may differ.

Option C is incorrect. Both XML and JSON support a variety of data types, including strings, numbers, and Booleans.

Option D is incorrect. Both XML and JSON support arrays, although the syntax for representing arrays is different in the two formats. In XML, arrays can be represented using repeating elements with the same name, while in JSON, arrays are represented using square brackets.

QUESTION 11

DRAG DROP

Refer to the exhibit.

```
def formatted_name(first_name, last_name):  
    full_name = first_name + ' ' + last_name  
    return full_name.title()
```

Drag and drop the code from the bottom onto the box where the code is missing in the Python unittest to verify whether the function returns the correct values. Not all options are used.

Select and Place:


```
import   
from name_function  formatted_name  
  
class NamesTestCase(unittest.TestCase):  
  
    def test_first_last_name(self):  
        result =  ("User", "Name")  
        self.assertEqual(, "User Name")
```

- | | | |
|--------|----------------|--------|
| unit | unittest | import |
| name | result | |
| export | formatted_name | |

Correct Answer:

```
import  unittest  
from name_function  import formatted_name  
  
class NamesTestCase(unittest.TestCase):  
  
    def test_first_last_name(self):  
        result =  export ("User", "Name")  
        self.assertEqual( formatted_name, "User Name")
```

- | | | |
|----------------------|----------------------|----------------------|
| unit | <input type="text"/> | <input type="text"/> |
| name | result | |
| <input type="text"/> | <input type="text"/> | |

QUESTION 12

Which principle is a value from the manifesto for Agile software development?

- A. processes and tools over teams and interactions
- B. detailed documentation over working software
- C. adhering to a plan over responding to requirements
- D. customer collaboration over contract negotiation

Correct Answer: D

Reference: https://www.cisco.com/c/dam/global/en_hk/solutions/collaboration/files/agile_product_development.pdf

QUESTION 13

DRAG DROP

Refer to the exhibit.

```
GET getNetworkHttpServers
https://api.meraki.com/api/v0/networks/:networkId/httpServers
List the HTTP servers for a network

AUTHORIZATION
API Key

This request is using an authorization helper from collection Meraki Dashboard
API
HEADERS
Accept
*/*
```

A developer is creating a Python script to obtain a list of HTTP servers on a network named office_east by using the Cisco Meraki API. The request has these requirements:

Must time out if the response is not received within 2 seconds.

Must utilize client certificates and SSL certificate verification.

Must utilize basic authentication that uses a username of admin and a password of cisco.

Must save the response to an object named response.

Drag and drop the code snippets from the bottom onto the blanks in the code to meet the requirements. Not all options are used.

Select and Place:

```
import requests
from requests.auth import HTTPBasicAuth
network = 'office east'
url = 'https://api.meraki.com/api/v0/networks/{}/httpServers'.format (network)
[ ] = requests.get(url=url, headers={ 'Accept': '*/*'},
verify='/etc/pki/tls/certs/ca.pem',
timeout= [ ] ,
[ ] = ('/etc/pki/tls/certs/client.pem',
'/etc/pki/tls/certs/client.key'),
auth= [ ] ('admin', 'cisco'))
response.status_code
```

token	response	2
HTTPTokenAuth	HTTPBasicAuth	cert

Correct Answer:

```
import requests
from requests.auth import HTTPBasicAuth
network = 'office east'
url = 'https://api.meraki.com/api/v0/networks/{}/httpServers'.format (network)
[ response ] = requests.get(url=url, headers={ 'Accept': '*/*'},
verify='/etc/pki/tls/certs/ca.pem',
timeout= [ 2 ] ,
[ cert ] = ('/etc/pki/tls/certs/client.pem',
'/etc/pki/tls/certs/client.key'),
auth= [ HTTPBasicAuth ] ('admin', 'cisco'))
response.status_code
```

token
HTTPTokenAuth

QUESTION 14

What is a firehose webhook?

- A. It collects data from third-party cloud APIs for custom applications.
- B. It enables an application to receive real-time data from Cisco Webex.
- C. It enables data to flow from the Cisco Webex API to a user's application.

D. It sends a notification of any event for commonly used resources.

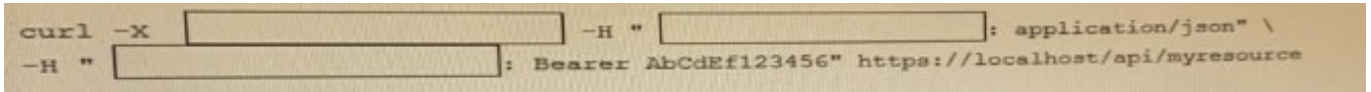
Correct Answer: D

QUESTION 15

FILL BLANK

Fill in the blanks to complete the cURL command that invokes a RESTful API to retrieve a resource in JSON format using OAuth.

curl -X _____ -H " _____: application/json" \
-H " _____: Bearer AbCdEf123456" https://localhost/api/myresource

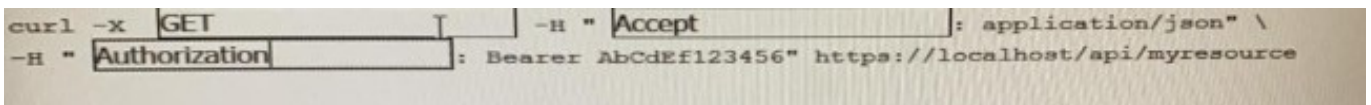


```
curl -X [ ] -H " [ ]: application/json" \  
-H " [ ]: Bearer AbCdEf123456" https://localhost/api/myresource
```

A. Check the answer in explanation.

Correct Answer: A

GET Accept Authorization



```
curl -X GET [ ] -H " Accept [ ]: application/json" \  
-H " Authorization [ ]: Bearer AbCdEf123456" https://localhost/api/myresource
```

Reference: <https://webcache.googleusercontent.com/search?q=cache:Se6d2trvMsEJ> <https://blogs.cisco.com/developer/security-api-best-practices+andcd=4andhl=enandct=clnkandgl=pkandclient=firefox-b-d>