



200-901 Q&As

Developing Applications and Automating Workflows using Cisco Platforms (DEVASC)

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QUESTION 1

Which unique identifier allows network traffic to be routed to a host?

- A. hostname
- B. network prefix
- C. IP address
- D. subnet mask

Correct Answer: C

QUESTION 2

Which benefit does CI/CD provide to the infrastructure?

- A. supports connectivity between network resources and external platforms
- B. supports the integration of network devices with external databases
- C. provides version control during application development
- D. enables frequent and reliable code deployments

Correct Answer: D

QUESTION 3

A company plans to develop an application by using Cisco APIs. The application must use code repositories approved by Cisco. The development team wants to make use of community-supported, open-source code. Which resource should be used?

- A. Cisco DevNet Code Exchange
- B. Cisco TAC
- C. Cisco DevNet Sandbox
- D. Cisco DevNet Learning Labs

Correct Answer: A



QUESTION 4

Which two protocols are used to apply a configuration change on a Cisco IOS XE device? (Choose two)

- A. CCX
- B. RESTCONF
- C. NETCONF
- D. HSRP
- E. CDP

Correct Answer: BC

QUESTION 5

DRAG DROP

Refer to the exhibit.

ietf-interfaces	module
interfaces	container
interface[name]	list
name	leaf string
description	leaf string
type	leaf identityref
enabled	leaf boolean
link-up-down-trap-enable	leaf enumeration
target:diffserv-target-entry[direction_policy-name]	list
ip:ipv4	container
ip:enabled	leaf boolean
ip:forwarding	leaf boolean
ip:mtu	leaf uint16
ip:address[ip]	list
ip:ip	leaf inet:ipv4-address-no-zone
(subnet)	choice
:(prefix-length)	case
ip:prefix-length	leaf uint8
:(netmask)	case
ip:netmask	leaf yang:dotted-quad
ip:neighbor[ip]	list
ip:ipv6	container
interfaces-state	container

A new loopback34 must be created on a Cisco IOS XE router that has an IP address of 10.34.1.2/24. Drag and drop the code from the bottom onto the box where the code is missing to construct the Python script that configures the IP address on the interface according to the YANG data model of ietf-interfaces. Not all options are used.



Select and Place:

```
int_url = f'https://router01.dev.net/restconf/data
          /ietf-interfaces:interfaces/'

data = json.dumps({
    " [ ] " : [ ] " : [{
        "name": "Loopback34",
        "type": "iana-if-type:softwareLoopback",
        'ietf-ip:ipv4': {
            ' [ ] ' : [{'ip': '10.34.1.2',
            ' [ ] ' : '255.255.255.0'}]
        }
    }
    ]
})

response = requests.post(
    int_url, headers=restconf_headers, data=data,
    auth=(username,password))
```

- loopback
- interface
- ietf-interfaces
- ipv4
- address
- netmask
- subnet

Correct Answer:



```
int_url = f'https://router01.dev.net/restconf/data
          /ietf-interfaces:interfaces/'

data = json.dumps({
    "ietf-interfaces": {
        "interface": [
            {
                "name": "Loopback34",
                "type": "iana-if-type:softwareLoopback",
                "ietf-ip:ipv4": {
                    "address": [{"ip": "10.34.1.2",
                                "netmask": "255.255.255.0"}]
                }
            }
        ]
    }
})

response = requests.post(
    int_url, headers=restconf_headers, data=data,
    auth=(username,password))
```

loopback			ipv4	
	subnet			

QUESTION 6

Refer to the exhibit.



API v1 documentation:

Authentication and authorization: Bearer token

Inventory endpoint: /api/v1/inventory

Method: GET

Response formats: text/html, application/json,
application/html

Token:

dXNlcm5hbWU6cGFzc3dvcmQ=

Api call:

GET /api/v1/inventory HTTP/1.1

Host: example.com

Response:

HTTP/1.1 401 Unauthorized

An API call is constructed to retrieve the inventory in XML format by using the API. The response to the call is 401 Unauthorized. Which two headers must be added to the API call? (Choose two.)

- A. Bearer-Token: dXNlcm5hbWU6cGFzc3dvcmQ=
- B. Content-Type: application/xml
- C. Authentication: Bearer dXNlcm5hbWU6cGFzc3dvcmQ=
- D. Accept: application/xml
- E. Authorization: Bearer dXNlcm5hbWU6cGFzc3dvcmQ=

Correct Answer: DE

A. is Incorrect because there is no Bearer-Token header in HTTP

B. is Incorrect, because the image shows Method GET, and Content-Type header defines the type of data you use in the payload of a Method POST C. is incorrect, because Authentication is not the correct HTTP header

D. is correct, because Accept header defines the expected response data format of a Method GET



E. is correct, because the header Authorization is the one used for OAuth and Basic Auth

QUESTION 7

What is the benefit of organizing data into functions?

- A. supports using same variable in different modules
- B. supports altering the state of an object
- C. organize code in a reusable way
- D. stores data values of different types

Correct Answer: C

QUESTION 8

What is the purpose of running tests before writing code in test-driven development?

- A. to find unexpected failures in the tests
- B. to demonstrate that the tests fail for expected reasons
- C. to ensure that the tests pass
- D. to provide proof of the work carried out

Correct Answer: B

In Test-Driven Development (TDD), developers write tests before writing code. The purpose of running the tests before writing code is to demonstrate that the tests fail for expected reasons. This is because the tests are written to test the functionality that the developer is about to add to the codebase, and since that functionality does not yet exist, the tests should fail. This is an important step in the TDD process because it confirms that the tests are correctly identifying the missing functionality and that they are not passing due to an error in the tests themselves.

QUESTION 9

Which platform is used to programmatically create a space and invite users for collaboration?

- A. Cisco Intersight
- B. Cisco Finesse
- C. Cisco Webex
- D. Cisco UCM

Correct Answer: C



QUESTION 10

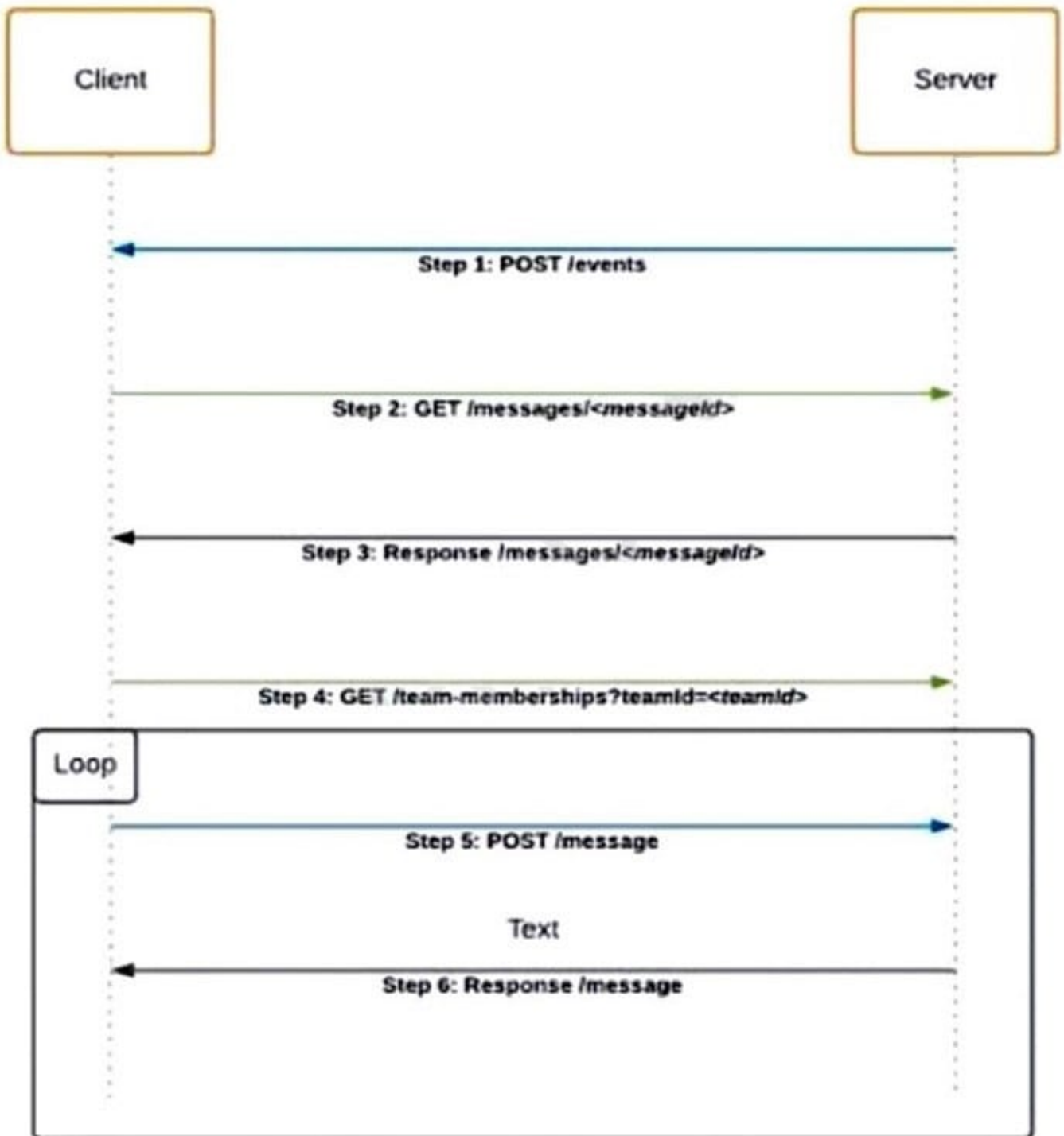
Which function does a router provide to a network?

- A. broadcast domain segmentation
- B. unique host on a Layer 3 network
- C. unique hardware address for every node on a LAN
- D. broadcast domain extension

Correct Answer: A

QUESTION 11

Refer to the exhibit.



Which code snippet represents the sequence.



- Ⓐ `@flask_app.route('/events', methods=['POST'])`
`def webex_teams_webhook_events():`
 `json_data = request.json['data']`
 `response = requests.get(MESSAGE_URL +`
`json_data['id'], headers=headers)`
 `if response.json()['text'] == 'Alert':`
 `response = requests.get(Team_MEMBERSHIPS_URL,`
`headers=headers, params=params)`
 `for info in response.json()['items']:`
 `data = {'personId': info['personId'], 'text':`
`'Alert'}`
 `response = requests.post(MESSAGES_URL,`
`headers=headers, params=params)`
- Ⓑ `@flask_app.route('/events', methods=['POST'])`
`def webex_teams_webhook_events():`
 `json_data = request.json['data']`
 `if response.json()['text'] == 'Alert':`
 `response = requests.get(MESSAGE_URL +`
`json_data['id'], headers=headers)`
 `response = requests.get(Team_MEMBERSHIPS_URL,`
`headers=headers, params=params)`
 `for info in response.json()['items']:`
 `data = {'personId': info['personId'],`
`'text': 'Alert'}`
 `response = requests.post(MESSAGES_URL,`
`headers=headers, params=params)`



- Ⓒ C.

```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
    json_data = request.json['data']
    response = requests.post(MESSAGE_URL +
    json_data['id'], headers=headers)
    if response.json()['text'] == 'Alert':
        for info in response.json()['items']:
            response = requests.get(Team_MEMBERSHIPS_URL,
            headers=headers, params=params)
            data = ('personId': info['personId'], 'text':
            'Alert')
            response = requests.get(MESSAGES_URL,
            headers=headers, params=params)
```
- Ⓓ D.

```
@flask_app.route('/events', methods=['POST'])
def webex_teams_webhook_events():
    json_data = request.json['data']
    response = requests.get(Team_MEMBERSHIPS_URL,
    headers=headers, params=params)
    if response.json()['text'] == 'Alert':
        response = requests.get(MESSAGE_URL +
    json_data['id'], headers=headers)
        for info in response.json()['items']:
            data = ('personId': info['personId'], 'text':
            'Alert')
            response = requests.post(MESSAGES_URL,
            headers=headers, params=params)
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C



QUESTION 12

DRAG DROP

Refer to the exhibit.



Address

Leafs

- negotiated

Children

- dhcp
- primary
- secondary

`class Native.Interface.GigabitEthernet.Ip.Address`

Bases: Entity

Class Hierarchy: Native interface GigabitEthernet ip Address

This class represents configuration data.

Set the IP address of an interface

secondary

type: list of Secondary

primary

type: Primary

dhcp

IP Address negotiated via DHCP

type: Dhcp

presence node: True

negotiated

IP Address negotiated via IKEv2 Modeconfig

type: Empty

Drag and drop the code from the bottom onto the box where the code is missing to configure the GigabitEthernet 3 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 = 

interface.name = '3'
interface.description = 'Interface Description'

 = '172.16.10.10'
 = '255.255.255.0'


```

<code>crud.update(provider, interface)</code>	<code>interface.ip.address.primary.address</code>
<code>model.Native.Interface.GigabitEthernet()</code>	<code>interface.ip.address.primary.mask</code>
<code>crud.create(provider, interface)</code>	<code>interface.ip.address.virtual.mask</code>
<code>interface.ip.mask</code>	

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'
prctl = 'ssh'
user = 'developer'
psw = 'P@s$W0rD'
port = 830
provider = nc(address=ip, port=port, username=user, password=psw, protocol=prctl)
crud = CRUDService()

interface = model.Native.Interface.GigabitEthernet()

interface.name = '3'
interface.description = 'Interface Description'

interface.ip.address.primary.address = '172.16.10.10'
interface.ip.address.primary.mask = '255.255.255.0'

crud.create(provider, interface)

crud.update(provider, interface)

interface.ip.address.virtual.mask

interface.ip.mask
```

QUESTION 13

Which Cisco platform is used to manage data center infrastructure through third-party tools and system integrations?

- A. Cisco DNA Center
- B. Cisco UCS Manager
- C. Cisco Intersight
- D. Cisco UCS Director

Correct Answer: C

"Cisco Intersight infrastructure services include the deployment, monitoring, management, and support of your physical and virtual infrastructure...In addition, Cisco provides integrations to third-party operations tools, starting with ServiceNow, to allow customers to use their existing solutions more efficiently."

Reference: https://intersight.com/help/saas/getting_started/overview

**QUESTION 14**

What is an advantage of the Agile software development method as compared to Waterfall?

- A. In Agile the development teams deliver the whole project at once, and in Waterfall the project is delivered in phases.
- B. In Agile the customer involvement is limited to the requirement collection phase, and in Waterfall the customer is involved in all development phases.
- C. In Agile every aspect of development is continually revisited, and in Waterfall the revision takes place in another project.
- D. In Agile each development team works independently, and in Waterfall the development team collaborate.

Correct Answer: C

QUESTION 15

A developer is developing a web application that uses username and password to authenticate to the next service. The user credentials must be available at any time in the application. The developer must choose and implement a secure method of storing the authentication credentials that are used in the automation code. Which password handling method must be used to minimize the security risk?

- A. Store the username and password in a separate configuration file.
- B. Store the username and password in a vault.
- C. Store the passwords in a dictionary.
- D. Store the username and password in code.

Correct Answer: B

Storing the username and password in a separate configuration file can potentially expose the credentials to unauthorized users if the file is not properly secured. It is generally more secure to store sensitive information, such as passwords, in a secure storage system, such as a vault, rather than in a configuration file or in code.

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