



**Cisco**

## **Exam Questions 200-901**

Developing Applications and Automating Workflows using Cisco Core Platforms (DEVASC)

**NEW QUESTION 1**

Refer to the exhibit.

```
<books>
  <science>
    <biology>10.00</biology>
    <geology>9.00</geology>
    <chemistry>8.00</chemistry>
  </science>
  <math>
    <calculus>20.00</calculus>
    <algebra>12.00</algebra>
  </math>
</books>
```

Which JSON is equivalent to the XML –encoded data?

```
{
  "books": {
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  }
}
```

```
[ {
  "books": {
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
```

```

"science": {
  "biology": "10.00",
  "geology": "9.00",
  "chemistry": "8.00"
},
"math": {
  "calculus": "20.00",
  "algebra": "12.00"
}
}
]

```

```

{
  "books": [
    "science": {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math": {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}

```

```

{
  "books": [
    "science", {
      "biology": "10.00",
      "geology": "9.00",
      "chemistry": "8.00"
    },
    "math", {
      "calculus": "20.00",
      "algebra": "12.00"
    }
  ]
}

```

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

Answer: A

**NEW QUESTION 2**

Which REST architectural constraint indicates that no client context should be stored on the server between requests?

- A. stateless
- B. uniform interface
- C. cacheable
- D. client-server

Answer: A

**NEW QUESTION 3**

Fill in the blanks to complete the python script to request a service ticket using the APIC-EM rest API for the user "devnetuser".

```

import requests
import json
controller = 'devnetapi.cisco.com/sandbox/apic_em'
url = "https://" + controller + "/api/va/ticket"
payload = { 'username': '_____', 'password': '371274739' }
header = { 'Content-type': 'application/json' }
response = _____ post(url, data=json.dumps(payload), \
headers=_____, verify=False)
r_json = response.json()
print(r_json)
ticket = r_json["response"]["serviceTicket"]
print(ticket)

```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Solution as below

```
import requests
import json
controller = 'devnetapi.cisco.com/sandbox/apic_em'
url = "https://" + controller + "/api/va/ticket"
payload = { 'username': 'devnetuser', 'password': '371387657' }
header = { 'Content-type': 'application/json' }
response = requests.post(url, data=json.dumps(payload), \
headers=header, verify=False)
r_json = response.json()
print(r_json)
ticket = r_json["response"]["serviceTicket"]
print(ticket)
```

**NEW QUESTION 4**

Refer to the exhibit.

```
---
- hosts: switch2960cx
  gather_facts: no

  tasks:
    - ios_12_interface:
      name: GigabitEthernet0/1
      state: unconfigured

    - ios_12_interface:
      name: GigabitEthernet0/1
      mode: trunk
      native_vlan: 1
      trunk_allowed_vlans: 6-8
      state: present

    - ios_vlan:
      vlan_id: 6
      name: guest-vlan
      interfaces:
        - GigabitEthernet0/2
        - GigabitEthernet0/3

    - ios_vlan:
      vlan_id: 7
      name: corporate-vlan
      interfaces:
        - GigabitEthernet0/4

    - ios_vlan:
      vlan_id: 8
      name: tot-vlan
      interfaces:
        - GigabitEthernet0/5
```

Which two statements describe the configuration of the Ansible script if run? (Choose two.)

- A. Traffic on port 0/2 and 0/3 is connected to port 0/6.
- B. Traffic from ports 0/2 to 0/5 can flow on port 0/1 due to the trunk.
- C. Traffic can flow between ports 0/2 to 0/5 due to the trunk on port 0/1.
- D. GigabitEthernet0/2 and GigabitEthernet0/3 are access ports for VLAN 6.
- E. GigabitEthernet0/1 is left unconfigured.

Answer: BD

**NEW QUESTION 5**

Which two items are Cisco DevNet resources? (Choose two.)

- A. TAC support
- B. Bitbucket
- C. Sandbox
- D. Software research
- E. API Documentation

Answer: CE

**NEW QUESTION 6**

When a Cisco IOS XE networking device is configured using RESTCONF, what is the default data-encoding method?

- A. XML
- B. x-form-encoding
- C. YANG
- D. YAML

Answer: A

**NEW QUESTION 7**

Refer to the exhibit.

```
#!/bin/bash
read ndir
while [ -d "$ndir" ]
do
cd $ndir
done
mkdir $ndir
```

What is the action of the Bash script that is shown?

- A. The script waits until input is entered
- B. If the directory exists, the script goes into it until there is no directory with the same name, then it creates a new directory.
- C. The script goes into the directory called "\$ndir" and makes a new directory called "\$ndir"
- D. The script waits until input is entered, then it goes into the directory entered and creates a new directory with the same name.
- E. For all directories in the current folder
- F. The script goes into directory and makes a new directory.

Answer: A

**NEW QUESTION 8**

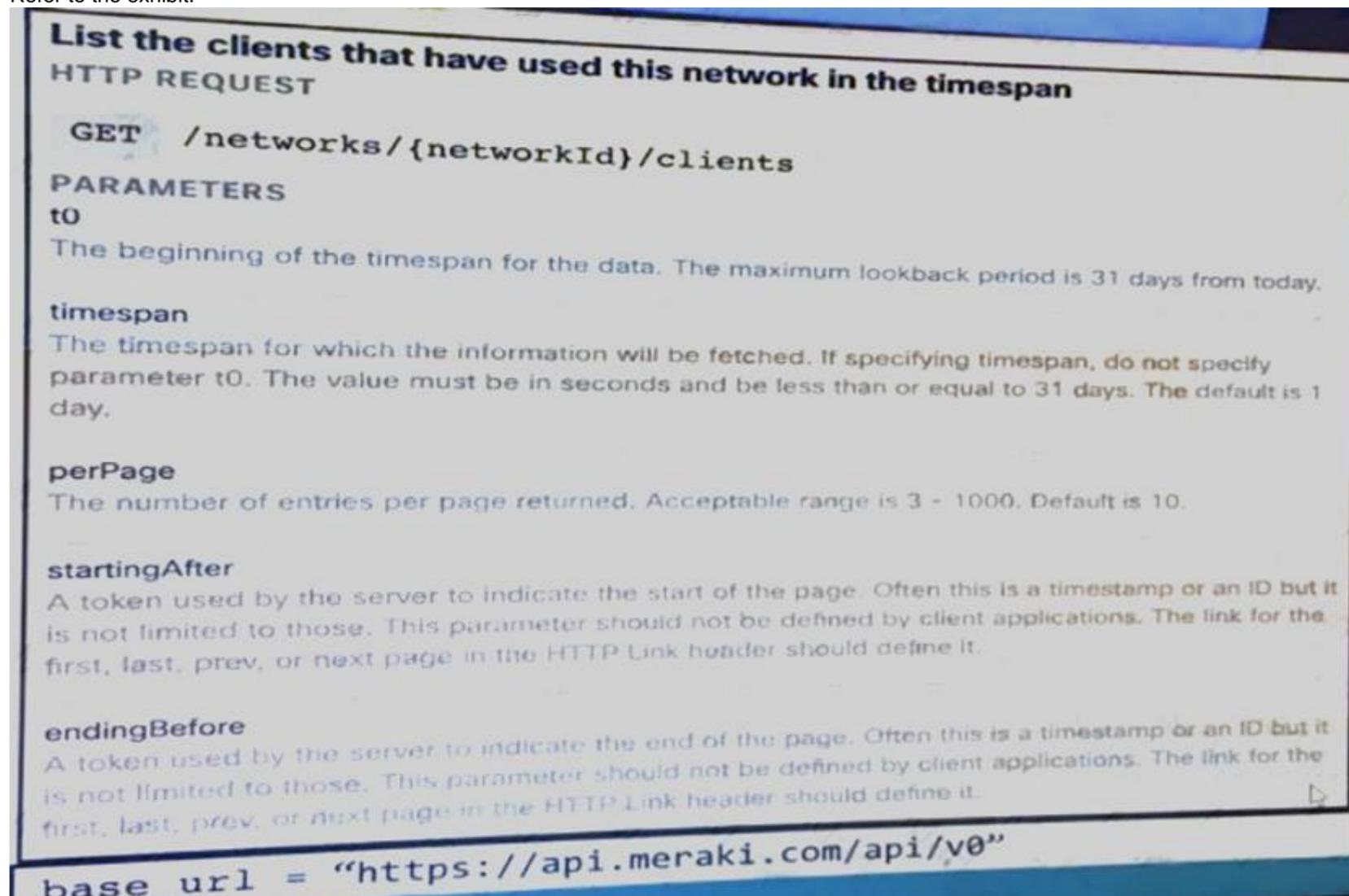
Which is an advantage of using network programmability?

- A. It removes CLI access for devices.
- B. It provides for more scalable and replicable network provisioning.
- C. Manual configuration is faster.
- D. No cloud abstraction occurs.

Answer: B

**NEW QUESTION 9**

Refer to the exhibit.



**List the clients that have used this network in the timespan**

**HTTP REQUEST**

**GET** /networks/{networkId}/clients

**PARAMETERS**

**t0**  
The beginning of the timespan for the data. The maximum lookback period is 31 days from today.

**timespan**  
The timespan for which the information will be fetched. If specifying timespan, do not specify parameter t0. The value must be in seconds and be less than or equal to 31 days. The default is 1 day.

**perPage**  
The number of entries per page returned. Acceptable range is 3 - 1000. Default is 10.

**startingAfter**  
A token used by the server to indicate the start of the page. Often this is a timestamp or an ID but it is not limited to those. This parameter should not be defined by client applications. The link for the first, last, prev, or next page in the HTTP Link header should define it.

**endingBefore**  
A token used by the server to indicate the end of the page. Often this is a timestamp or an ID but it is not limited to those. This parameter should not be defined by client applications. The link for the first, last, prev, or next page in the HTTP Link header should define it.

**base\_url** = "https://api.meraki.com/api/v0"

```
base_url = "https://api.meraki.com/api/v0"
network_id = "L_12345678910"
api_key = "1098hadpfsiapsf8ahf8ohp"
requests.<item 1>(
    <item 2> + "/<item 3>/" + <item 4> + "/<item 5>",
    headers = {
        "X-Cisco-Meraki-API-Key": "<item 6>",
        "Content-Type": "<item 7>"
    },
    <item 8>={"<item 9>":<item 10>})
```

Drag and drop the code from the left code from the left onto the item number on the right to complete the Meraki code to obtain a list of client which have used this network.

|                  |           |
|------------------|-----------|
| params           | <item 1>  |
| networks         | <item 2>  |
| timespan         | <item 3>  |
| get              | <item 4>  |
| 432000           | <item 5>  |
| base_url         | <item 6>  |
| application/json | <item 7>  |
| network_id       | <item 8>  |
| clients          | <item 9>  |
| api_key          | <item 10> |

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

1 - d, 2 - f, 3 - b, 4 - h, 5 - i, 6 - j, 7 - g, 8 - a, 9 - c, 10 - e

**NEW QUESTION 10**

Which platform has an API that be used to obtain a list of vulnerable software on user devices?

- A. Cisco Umbrella
- B. Cisco Firepower
- C. Cisco Identity Services Engine
- D. Cisco Advanced Malware Protection

Answer: D

**NEW QUESTION 10**

A function my\_func() returns True when it executes normally. Which python snippet tests my\_func()?

- ```
def test_func(self):
    self.assertTrue(my_func())
```
- ```
def test_func(self):
    self.assertRaises(my_func())
```
- ```
def test_func(self):
    self.assertEqual(my_func(), '{true}')
```
- ```
def test_func(self):
    self.assertFalse(my_func())
```

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

Answer: B

**NEW QUESTION 15**

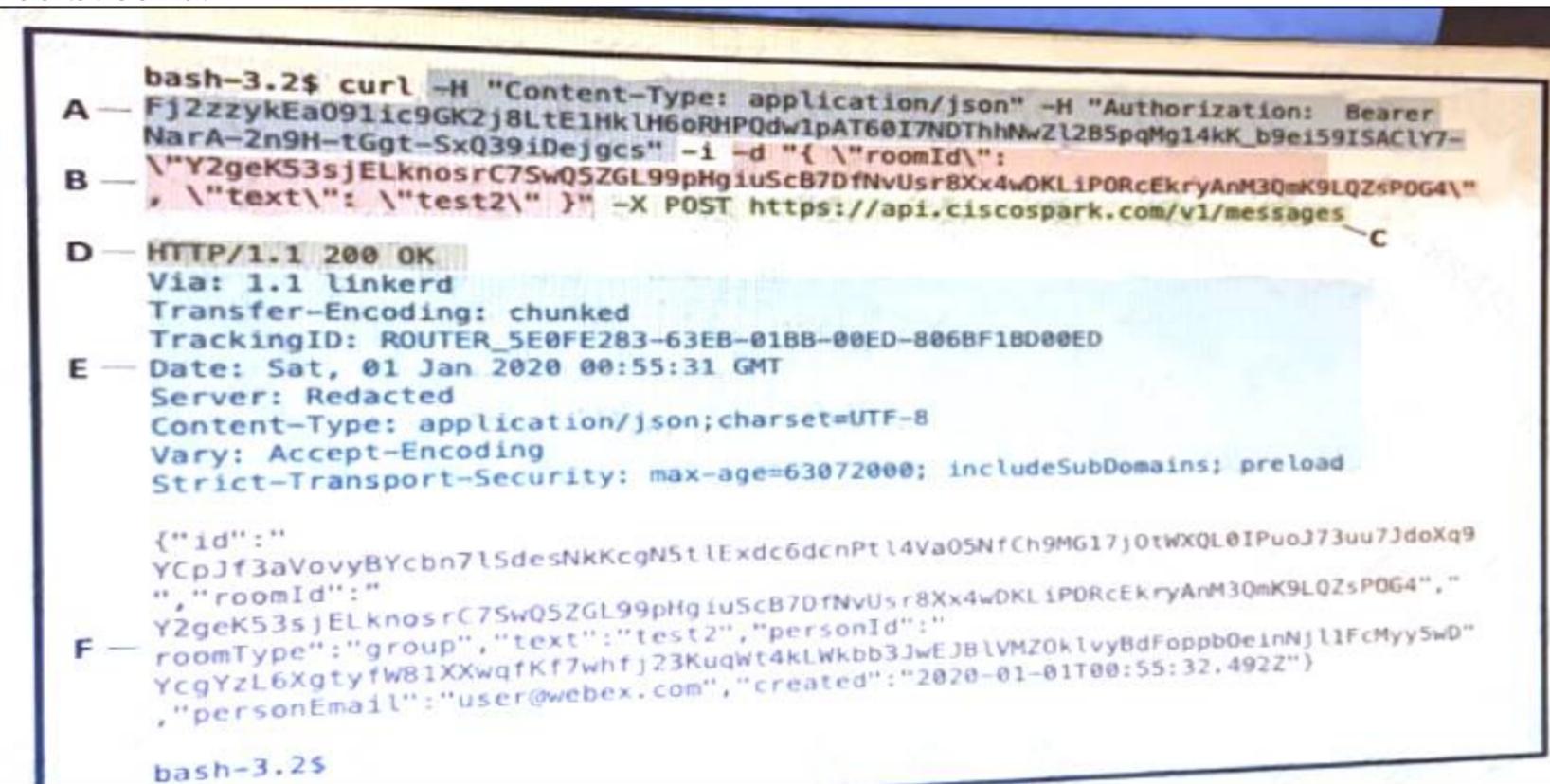
An automation script fails to connect to an internal server exactly 1 out of 2 times it is executed. This behavior is seen from different clients. Which networking device must be at fault?

- A. Laptop on which the script is running
- B. Router
- C. Switch
- D. Load balancer

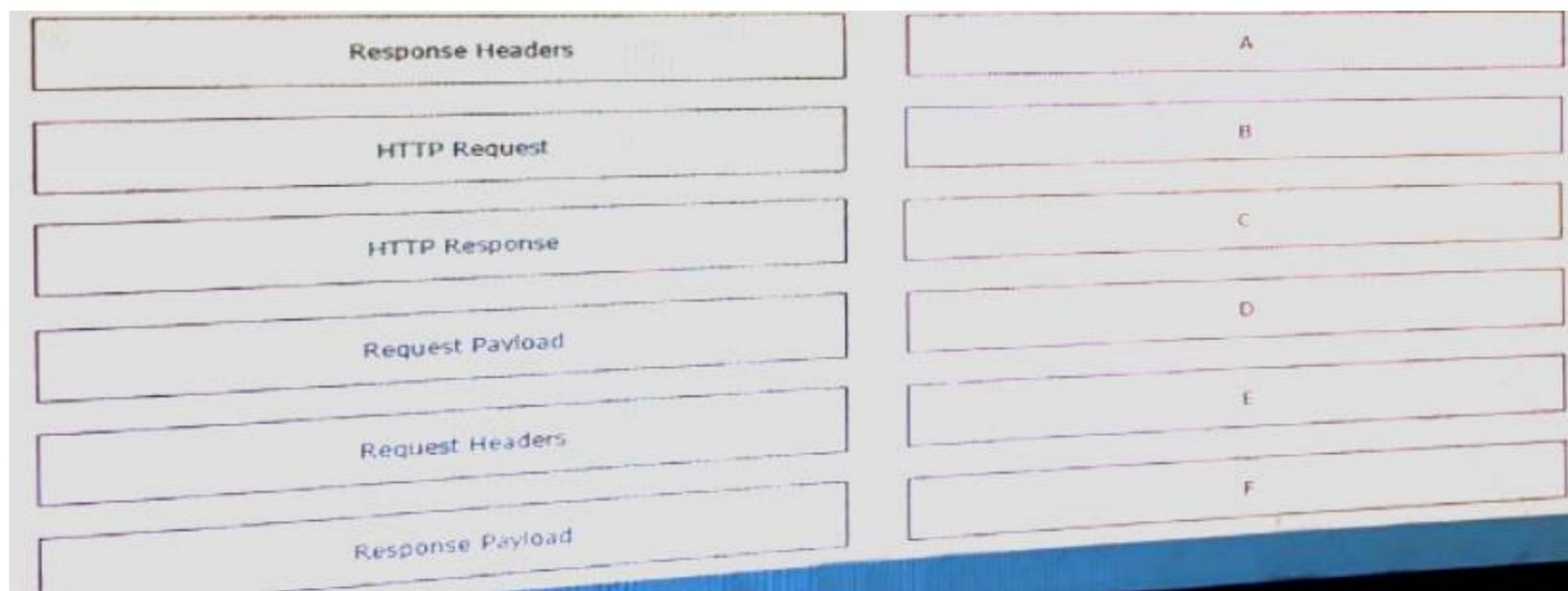
Answer: D

**NEW QUESTION 20**

Refer to the exhibit.



Drag and drop the descriptors from the left onto the correct parts of the API request and response on the right.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

A – E, B – D, C – B, D – C, E – A, F – F

**NEW QUESTION 22**

Which line is an example of the start of a chunk from a unified diff?

- A. @@ -90,88 +20191008T1349@@
- B. @@ -20191007T1200 +88,90 @@
- C. @@ -20191007T1200 +20191008T1349@@
- D. @@ -88,10 +88,6 @@

**Answer:** D

**NEW QUESTION 24**

Which two types of NAT are used in a network? (Choose two.)

- A. Static NAT
- B. Normal NAT
- C. Multicast NAT
- D. Dynamic NAT
- E. Router NAT

**Answer:** AD

**NEW QUESTION 29**

Which PAI is used to obtain data voicemail ports?

- A. Finesse gadgets
- B. Cisco Unified Communications manager
- C. Webex devices
- D. Webex teams

**Answer:** B

**NEW QUESTION 34**

A developer is reviewing a code that was written by a colleague. It runs fine, but there are many lines of code to do a seemingly simple task repeatedly. Which action organizes the code?

- A. Refactor the code by removing any unnecessary tests
- B. Using functions, rewrite any pieces of code that are repeated
- C. Reverse engineer and rewrite the code logic
- D. Modify the code to use loops

**Answer:** B

**NEW QUESTION 35**

Refer to the exhibit.

```
class ucsm sdk . ucshandle . UcsHandle ( ip , username , password , port = None ,
secure = None , proxy = None ) [source]
Bases: ucsm sdk . ucsession . UcsSession
UcsHandle class is the user interface point for any Ucs related communication.
Parameters:
• ip (str) – The IP or Hostname of the UCS Server
• username (str) – The username as configured on the UCS Server
• password (str) – The password as configured on the UCS Server
• port (int or None) – The port number to be used during connection
• secure (bool or None) – True for secure connection, otherwise False
• proxy (str) – The proxy object to be used to connect
```

Given the API documentation for the UCS SDK python class, UcsHandle, which code snippet creates a handle instance?

```
Documentation for the UCS SDK Python class,
A. #!/usr/bin/env python3
from ucsm sdk . ucshandle import UcsHandle
handle = UcsHandle ("10.1.2.254", "admin", "password",
port="443", secure=True)
B. #!/usr/bin/env python3
import ucsm sdk . ucshandle . UcsHandle
handle = UcsHandle ("10.1.2.254", "admin", "password",
port=443, secure=1)
C. #!/usr/bin/env python3
from ucsm sdk . ucshandle import UcsHandle
handle = UcsHandle (ip="10.1.2.254", username="admin",
password="password", port=443, secure=True)
D. #!/usr/bin/env python3
from ucsm sdk . ucshandle import UcsHandle
handle = UcsHandle ("10.1.2.254", "admin", "password",
port="443", secure=1)
```

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

Answer: B

**NEW QUESTION 39**

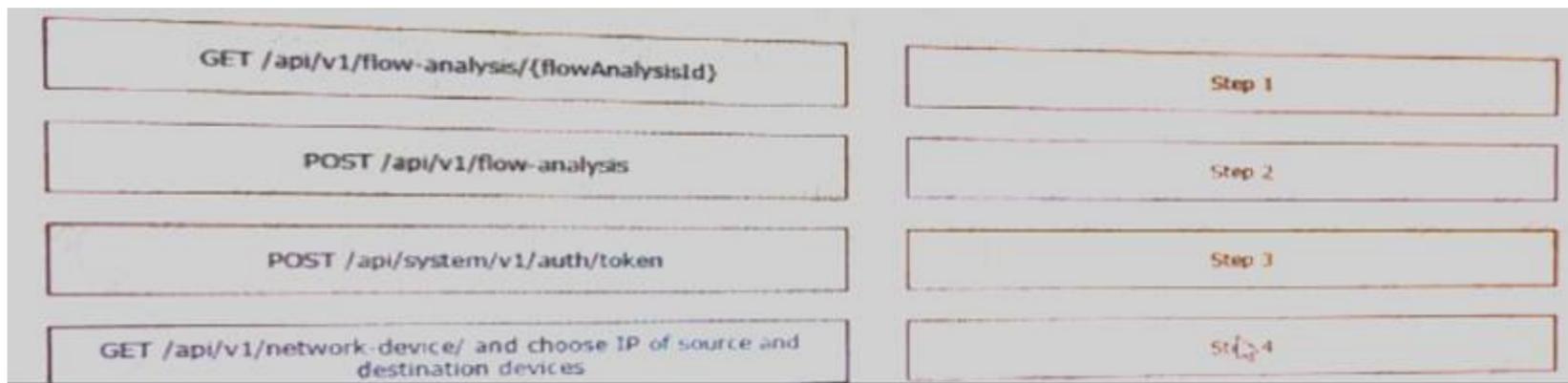
On which port does NETCONF operate by default?

- A. 23
- B. 443
- C. 822
- D. 830

Answer: D

**NEW QUESTION 41**

Drag and drop the requests from the left into the correct order on the right to create and check the path trace between two devices using Cisco DNA center API.



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

1 - C, 2 - D, 3 - B, 4 - A

**NEW QUESTION 46**

Refer to the exhibit.

A developer is troubleshooting an API with the given API with the given API documentation and cURL command. What is the cause of this problem?

- A. The user is not allowed to post messages from their account
- B. The request body is missing or incomplete

- C. The API token specified is expired
- D. The authorization header is missing or incomplete

Answer: C

**NEW QUESTION 50**

Before which process is code review performed when version control is used?

- A. committing code
- B. branching code
- C. merge of code
- D. checkout of code

Answer: C

**NEW QUESTION 51**

Drag and drop elements of the RESTCONF protocol stack from the left onto the correct description on the right. Not all elements on the left are used.

|                               |            |
|-------------------------------|------------|
| <data>                        | content    |
| XML or JSON                   | operations |
| SSH                           | transport  |
| <rpc>, <rpc-reply>            |            |
| GET, POST, PUT, PATCH, DELETE |            |
| HTTPS                         |            |

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

1 – B, 2 – E, 3 - F

**NEW QUESTION 52**

Drag and drop the functionalities from the left onto correct networking devices on the right.

|   |               |
|---|---------------|
| ports are different broadcast domain by default   | Firewall      |
| ports can be in the same broadcast domain         | Load Balancer |
| uses traffic inspection to make routing decisions | Router        |
| blocks networks traffic by default                | Switch        |

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

1 – D, 2 – C, 3 – A, 4 – B

**NEW QUESTION 57**

An application calls a REST API and expects a result set of more than 550 records, but each time the call is made, only 25 are returned. Which feature limits the amount of data that is returned by the API?

- A. pagination
- B. payload limit
- C. rate limiting
- D. service timeouts

Answer: A

**NEW QUESTION 62**

Refer to the exhibit.

```
class ucsm sdk . ucshandle . Ucshandle ( ip , username , password , port = None ,
secure = None , proxy = None ) [source]
Bases: ucsm sdk . ucsession . UcSession
Ucshandle class is the user interface point for any Ucs related communication.
Parameters:
• ip (str) – The IP or Hostname of the UCS Server
• username (str) – The username as configured on the UCS Server
• password (str) – The password as configured on the UCS Server
• port (int or None) – The port number to be used during connection
• secure (bool or None) – True for secure connection, otherwise False
• proxy (str) – The proxy object to be used to connect
```

Given the API documentation for the UCS SDK python class, Ucshandle, which code snippet creates a handle instance?

```
#!/usr/bin/env python3
from ucsm sdk . ucshandle import Ucshandle
handle = Ucshandle ("10.1.2.254", "admin", "password",
port="443", secure=True)

#!/usr/bin/env python3
import ucsm sdk . ucshandle . Ucshandle
handle = Ucshandle ("10.1.2.254", "admin", "password",
port=443, secure=1)

#!/usr/bin/env python3
from ucsm sdk . ucshandle import Ucshandle
handle = Ucshandle (ip="10.1.2.254", username="admin",
password="password", port=443, secure=True)

#!/usr/bin/env python3
from ucsm sdk . ucshandle import ucshandle
handle = Ucshandle ("10.1.2.254", "admin", "password",
port="443", secure=1)
```

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

Answer: B

**NEW QUESTION 67**

Which task is performed because the test-driven development approach is being used?

- A. testing existing software before developing new code
- B. refactoring code that is covered by existing tests
- C. writing code without committing any coding violations
- D. creating test scenarios based on continuous development

Answer: B

**NEW QUESTION 70**

What is the purpose of a MAC address?

- A. To uniquely identify a router in a LAN
- B. To uniquely identify a network interface in a LAN
- C. To uniquely identify a device on the internet
- D. To uniquely identify a switch in a LAN

**Answer: B**

**NEW QUESTION 73**

In DNS, which record specifies an alias that refers to another name that ultimately resolves to an IP address?

- A. AAA
- B. SOA
- C. NS
- D. CNAME

**Answer: D**

**NEW QUESTION 74**

Which device is a system that monitors and controls incoming and outgoing network traffic based on predetermined security rules?

- A. Switch
- B. Router
- C. Firewall
- D. Load balancer

**Answer: C**

**NEW QUESTION 75**

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

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

**Answer: D**

**NEW QUESTION 80**

Drag and drop the element of the Finesse API on the left onto the description of its functionality on the right.

|            |  |
|------------|--|
| User       | Represents a skill group in Unified CCE.                           |
| Dialog     | Represents the current state of the system.                        |
| Media      | Represents an agent, supervisor or administrator.                  |
| Queue      | Represents a group of users.                                       |
| Team       | Represents a call and the participants if the media type is voice. |
| SystemInfo | Sends client-side logging to the Finesse Server.                   |
| ClientLogs | Represents a user's state in a non-voice Media Routing Domain.     |

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

1 – D, 2 – F, 3 – A, 4 – E, 5 – B, 6 – G, 7 - C

**NEW QUESTION 85**

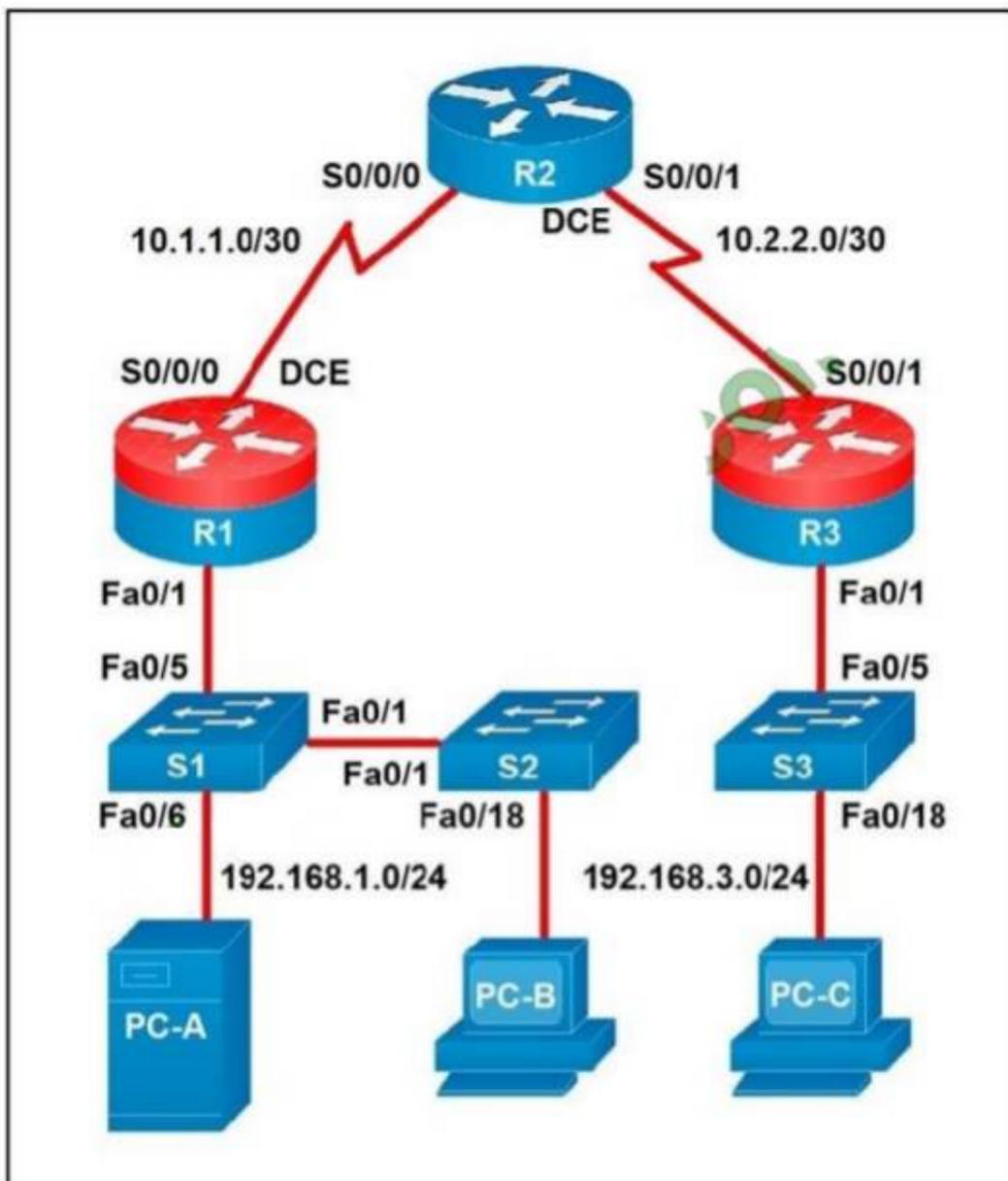
Which model-driven programmability protocol does Cisco IOS XE Software support?

- A. CORBA
- B. SSH
- C. gNMI
- D. SOAP

Answer: C

**NEW QUESTION 88**

Refer to the exhibit.



Which two statements about the network diagram are true? (Choose two.)

- A. PC-A and PC-B are in the same subnet.
- B. One of the routers has two connected serial interfaces.
- C. The subnet of PC-C can contain 256 hosts.
- D. R1 and R3 are in the same subnet.
- E. The subnet address of PC-B has 18 bits dedicated to the network portion.

Answer: BC

**NEW QUESTION 93**

Which two encoding formats do YANG interfaces support?

- A. JSON
- B. XML
- C. XHTML
- D. Plain text
- E. BER

Answer: AB

**NEW QUESTION 94**

Which platform is run directly using a hypervisor?

- A. Virtual
- B. Bare metal systems
- C. Containers
- D. Applications

Answer: C

**NEW QUESTION 97**

Fill in the blanks to complete the Python script to update the Webex Teams membership of a room using the Python requests library import requests

```
import requests
url = "https://api.ciscospark.com/v1/memberships/Y2lzY29zcGFiYzov371508156INISVAvOTJM2RkOWEiNjc1ZC00YTQxLThjNDEtMmFiZGY4OWY0NGY0OjExNzJkNmYwLTJiY2M1MTFIOS1iOWI3LWNmMjg3MTJhYTgzNw"

payload = '{"isModerator": true}'
headers = {
    'Authorization': 'Bearer ',
    'Content-Type': 'application/json'
}

response = requests. [ ] ("PATCH" url headers= [ ] data = [ ])
print(response.text.encode('utf8'))
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

request, headers , payload

**NEW QUESTION 98**

Which detail is included in a routing table?

- A. IP protocol
- B. Broadcast address
- C. TCP or UDP port number
- D. Destination next hop or outgoing interface

**Answer:** D

**NEW QUESTION 103**

On which network plane is routing protocol traffic handled?

- A. data plane
- B. management plane
- C. authentication plane
- D. control plane

**Answer:** D

**NEW QUESTION 108**

What is the benefit of edge computing?

- A. It reduces network latency by moving processing closer to the data source.
- B. It simplifies security as devices and processing are brought closer together
- C. It removes the need for centralized data processing.
- D. It reduces data velocity from devices or other data sources.

**Answer:** A

**NEW QUESTION 109**

Which type of threat occur when an attacker can send hostile data to an interpreter within an application?

- A. Cross-site scripting
- B. Sensitive data exposure
- C. Broken authentication
- D. Injection

**Answer:** D

**NEW QUESTION 110**

Fill in the blanks to complete the statement.

Given a username of "devnet" And a password "Cisco123", applications must create a base64 encoding of the string"\_\_\_\_\_ " when sanding HTTP requests to an API that uses \_\_\_\_\_ authentication.

Given a username of "devnet" and a password of "cisco123", applications must create a base64 encoding of the string "\_\_\_\_\_ " when sending HTTP requests to an API that uses \_\_\_\_\_ authentication.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Given a username of "devnet" and a password of "cisco123", applications must create a base64 encoding of the string "devnet:cisco123" when sending HTTP requests to an API that uses Basic authentication.

**NEW QUESTION 114**

Which statement describes the benefit of using functions in programming?

- A. Functions allow problems to be split into simpler, smaller groups, and reduce code repetition, which makes the code easier to read.
- B. Functions ensure that a developer understands the inner logic contained before using them as part of a script or application.
- C. Functions create the implementation of secret and encrypted algorithms.
- D. Functions store mutable values within a script or application.

**Answer:** A

**NEW QUESTION 117**

Which two concepts describe test-driven development? (Choose two.)

- A. It enables code refactoring.
- B. Write a test before writing code.
- C. Implementation is driven by incremental testing of release candidates.
- D. User acceptance testers development the test requirements.
- E. Tests are created when code is ready for release.

**Answer:** BC

**NEW QUESTION 119**

What is the Git command to delete a local branch named "experiment" without a warning?

- A. git branch -n experiment
- B. git branch -rm experiment
- C. git branch -f experiment
- D. git branch -D experiment

**Answer:** D

**NEW QUESTION 122**

Which two elements are foundational principles of DevOps? (Choose two.)

- A. designing applications as microservices
- B. encouraging containers for the deployment of applications
- C. organizing cross-functional teams over organizational silos
- D. optimizing the cost of infrastructures
- E. automating over documenting

**Answer:** CE

**NEW QUESTION 127**

Refer to the exhibit.

```

$ pyang -f tree Cisco-IOS-XE-native.yang
module: Cisco-IOS-XE-native
  +--rw native
    +--rw logging
      +--rw monitor!
        +--rw severity? logging-level-type

$ curl --insecure -v -X PATCH \
  "https://ios-xe-mgmt-latest.cisco.com:9443/restconf/data/Cisco-IOS-XE-native:native" \
  -H 'Authorization: Basic ZGV2ZWxvcGVyOkMke2NvMTIzNDU=' -H 'Accept: application/yang-data+json' \
  -H 'Content-Type: application/yang-data+json' \
  -d '{ "Cisco-IOS-XE-native:native" : { "logging" : { "monitor" : { "severity" : "alerts" } } } }'
> ...
< ...
< HTTP/1.1 204 No Content

```

The definition of the YANG module and a RESTCONF query sent to a Cisco Ioc XE device is shown. Which statement is correct if the RESTCONF interface responds with a 204 status code?

- A. The query failed at retrieving the logging seventy level.
- B. The query failed to set the logging seventy level due to an invalid path.
- C. The query retrieved the logging seventy level.
- D. The query updated the logging seventy level or created it if not present on the device.

**Answer:** D

**NEW QUESTION 130**

Refer to the exhibit.



Answer: A

**Explanation:**

```
import requests
url = "https://myDNAServer/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1ZDE0OWZkMjhlZTY2MmQ3NGM5YzE5ZTIiLCJmYzI6ImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraXN371387657.zhK5LPQd501ZUpZi0IH_qrgOXtIINbxSFFF7JOEtRIs'}
response = requests.request("GET", url, headers=headers, data=payload)
print(response.text.encode('utf8'))
```

**NEW QUESTION 134**

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