

Cisco

200-901 Exam

DevNet Associate (DEVASC) Exam

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Questions & Answers
(Retail Version – Full Questions Set)

Product Questions: 104

Version: 7.1

Question: 1

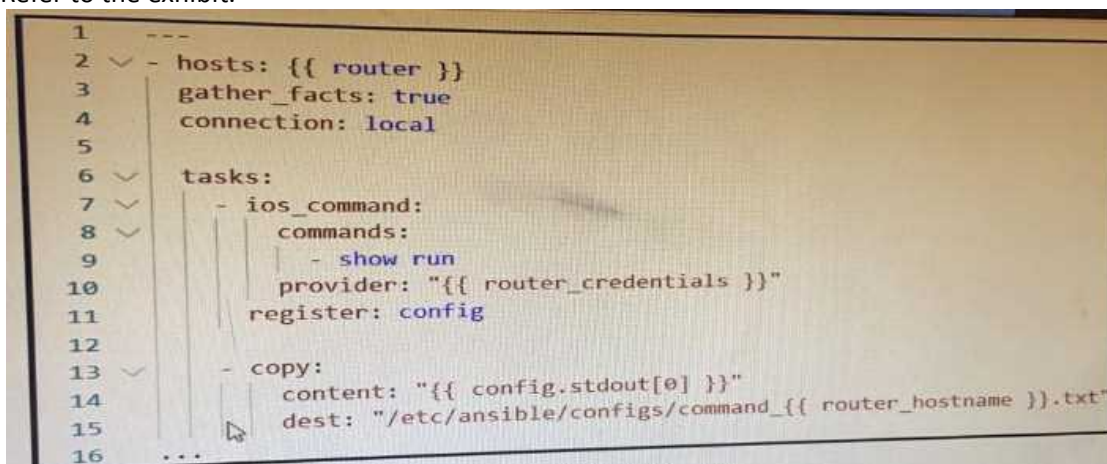
Which type of threat occur when an attacker can send hostile data to an interpreter within an application?

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

Answer: D

Question: 2

Refer to the exhibit.



```
1 ---
2 - hosts: {{ router }}
3   gather_facts: true
4   connection: local
5
6   tasks:
7     - ios_command:
8       commands:
9         - show run
10      provider: "{{ router_credentials }}"
11      register: config
12
13    - copy:
14      content: "{{ config.stdout[0] }}"
15      dest: "/etc/ansible/configs/command_{{ router_hostname }}.txt"
16 ...
```

What is the effect of this Ansible playbook on an IOS router?

- A. A new running configuration is pushed to the IOS router.
- B. The current running configuration of the IOS router is backed up.
- C. The start-up configuration of the IOS router is copied to a local folder.
- D. A new start-up configuration is copied to the IOS router.

Answer: B

Question: 3

Which two statements describe the role of an artifact repository in a CI/CD pipeline? (Choose two.)

- A. An artifact repository allows to compare and merge changes in the source code of files involved in a build process.
- B. An artifact repository is needed only for CI/CD pipeline executed on a public cloud infrastructure.
- C. An artifact repository provides traceability, search, and management of binary files.
- D. An artifact repository is needed only for managing open source software.
- E. An artifact repository stores files needed and generated during the build process.

Answer: CE

Question: 4

DRAG DROP

Drag and drop the network component names from the left onto the correct descriptions on the right. Not all options are used.

DNS server	contains a database of public IP addresses and their associated hostnames and often resolves or translates those names to IP addresses, as requested
firewall	enforces a set of rules about which data packets are allowed to enter or leave a network
reverse proxy	distributes network and application traffic across different servers
load balancer	retrieves resources on behalf of a client from one or more servers, then returns resources to the client, thus appearing as if they originated from the service itself
NAT gateway	

Answer:

1 – A, 2 – B, 3 – D, 4 – C



Question: 5

What is the purpose of the Cisco VIRL software tool?

- A. To verify configurations against compliance standards
- B. To simulate and model networks

- C. To automate API workflows
- D. To test performance of an application

Answer: B

Question: 6

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

Question: 7

FILL IN THE BLANK

Fill in the blanks to complete the python script to retrieve a list of network devices using the Cisco DNA center API.

```
import requests
url = "https://myDNAserver/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWUiOiI1ZDE0OWZkMjhiZTY2MmQ3NGM5YzE5ZTIiLCJmYzMCiSImV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraXN371274739.zhK5LPQd501ZUpZi0IH_qrgOXtllNbxSFFF7JOEtRIs'}
}
response = requests.request( [ ] , url,
headers = [ ] , data = [ ] )
print(response.text.encode('utf8'))
```

Answer:

“GET”, headers, payload

Question: 8

Which statement about authentication a RESTCONF API session with a router that runs Cisco IOS XE software is true?

- A. OAuth must be used.
- B. A token must be retrieved and the associated string must be embedded in the X-Auth-Token header.
- C. Basic authentication must be used.
- D. No authentication is required.

Answer: C

Question: 9

Which mechanism is used to consume a RESTful API design when large amounts of data are returned?

- A. Data sets
- B. Scrolling
- C. Blobs
- D. **Pagination**

Answer: D

Question: 10

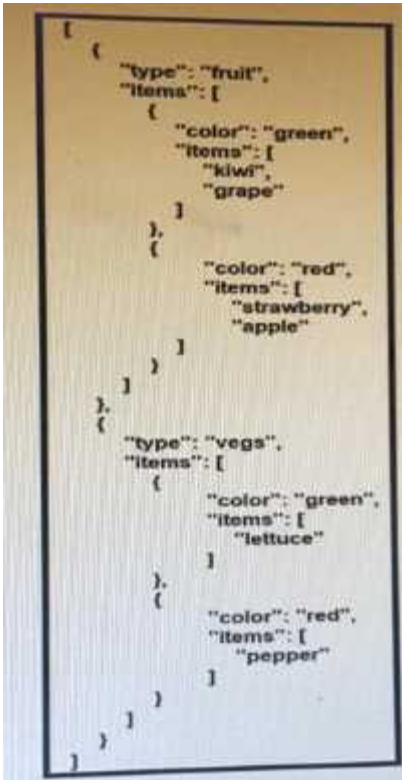
Which action does the Git command git merge allow the development to perform?

- A. **Combine multiple sequence of commits into one unified history.**
- B. Push changes to the remote repository
- C. Switch between branches
- D. Create, list, rename, and delete branches

Answer: A

Question: 11

Refer to the exhibit.



A REST API returns this JSON output for a GET HTTP request, which has been assigned to a variable called "vegetables". Using Python, which output is the result of this command?

```
Print (filter(lambda i: i['type'] == 'fruit', vegetables)[0]['items'][0])
```

- A. Lettuce
- B. Kiwi
- C. ['kiwi', 'grape']
- D. {'color': 'green', 'items': ['kiwi', 'grape']}

Answer: B

Question: 12

Which status code is used by a REST API to indicate that the submitted payload is incorrect?

- A. 400
- B. 403
- C. 405
- D. 429

Answer: A

Question: 13

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

Question: 14

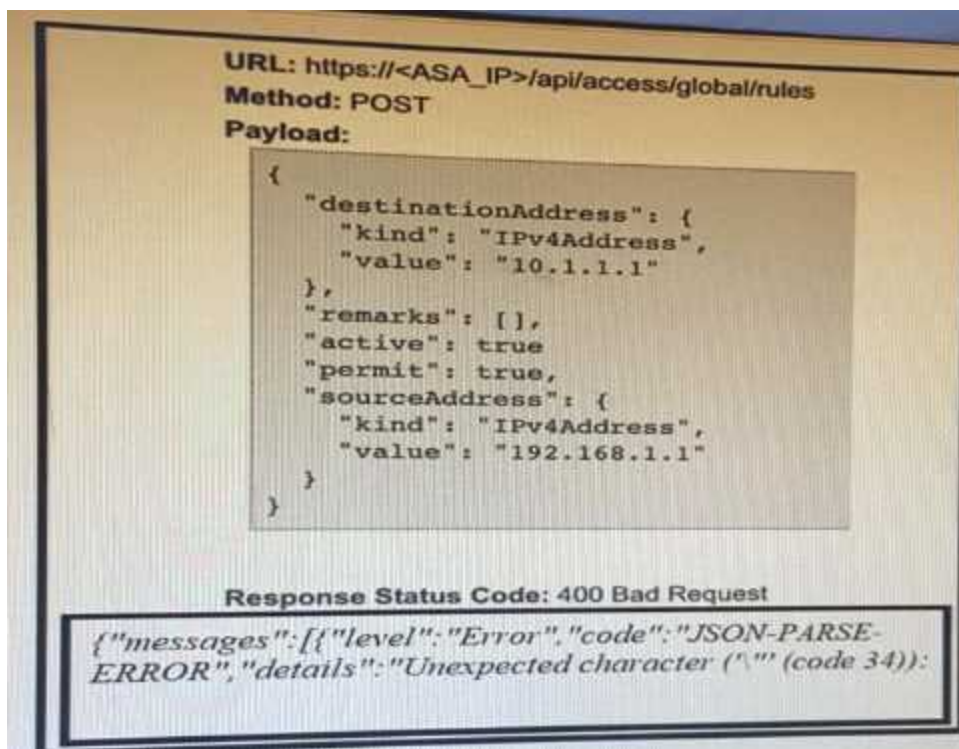
Which way should be used to safely the API keys?

- A. In an environment variable unique to the system database
- B. Encrypted in a configuration file that is separate from the code
- C. Encrypted in the code in a function
- D. Plain text in the code as a constant

Answer: B

Question: 15

Refer to the exhibit.



What caused the error in this API request?

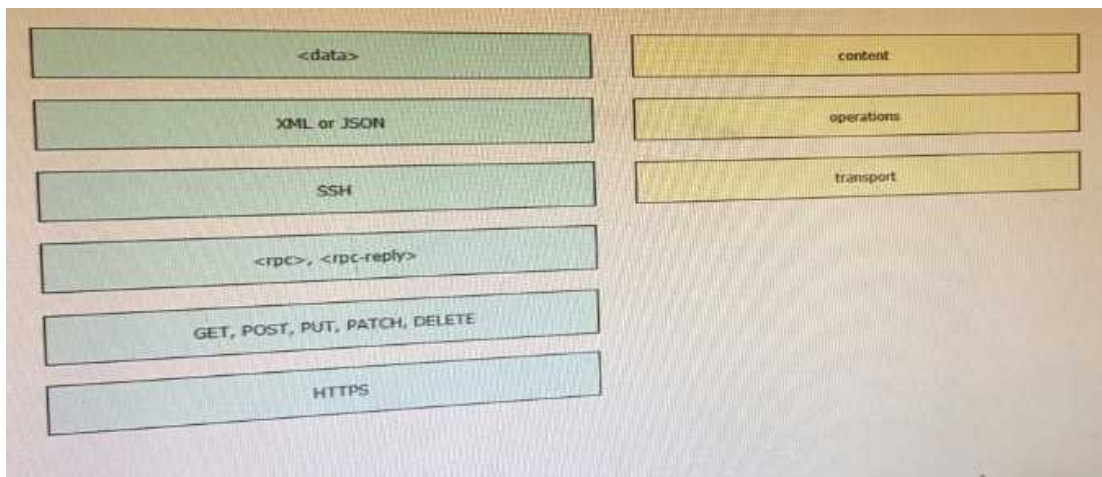
- A. The API resource does not support the POST operation
- B. The API resource does not support JSON format payloads.
- C. The submitted JSON payload includes a field that is not supported by the API resource.
- D. The submitted JSON payload has a formatting issue

Answer: D

Question: 16

DRAG DROP

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.



Answer:

1 – B, 2 – E, 3 - F



Question: 17

What are two advantages of version control software? (Choose two.)

- A. It supports tracking and comparison of changes in binary format files.
- B. It allows old versions of packaged applications to be hosted on the Internet
- C. It provides wiki collaboration software for documentation.
- D. It supports comparisons between revisions of source code files.
- E. It allows new team members to access the current code and history.

Answer: DE

Question: 18

Which description of a default gateway is true?

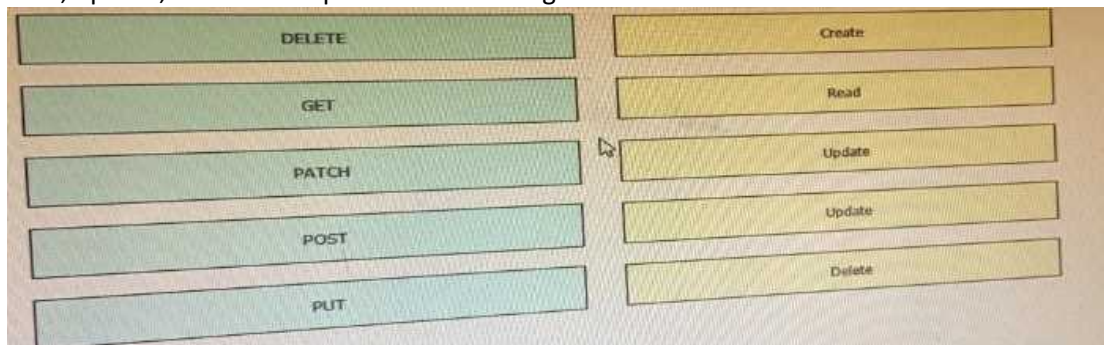
- A. It is a device that receives IP packets that have no explicit next-hop in the routing table.
- B. It is a feature that translates between public and private addresses.
- C. It is a security feature that denies certain traffic.
- D. It is a device that receives Layer 2 frames with an unknown destination address.

Answer: A

Question: 19

DRAG DROP

Drag and drop the HTTP methods from the left onto their generally accepted corresponding create, read, update, and delete operations on the right.



Answer:

1 – D, 2 – B, 3 – C, 4 – E, 5 – A

**Question: 20**

Which two descriptions can be given to an application that is interacting with a webhook? (Choose two.)

- A. Processor
- B. Codec
- C. Listener
- D. Receiver
- E. Transaction monitor

Answer: CD

Question: 21

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

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

Answer: D

Question: 22

Refer to the exhibit.

```
def process_devices(dnac, token):  
    url = "https://()/api/v1/network-device".format(dnac['host'])  
    headers["x-auth-token"] = token  
    response = requests.get(url, headers=headers, verify=False)  
    data = response.json()  
    for item in data['response']:  
        print(item["hostname"], " ", item["managementIpAddress"])
```

What is the function of the python script?

- A. Count and print the total number of available devices.
- B. Iterate over a list of network devices and write all device names and management IP addresses to an output file.
- C. Iterate over a list of network devices and write all device type and associated management IP address.
- D. For each device that is returned, display the device and, for each device, print the device name and management IP address.
- E. Loop through the returned list of network devices and, for each device, print the device name management IP address.

Answer: E

Question: 23

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

Question: 24

On which port does NETCONF operate by default?

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

Answer: D

Question: 25

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

Question: 26

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 scripted is running
- B. Router
- C. Switch
- D. Load balancer

Answer: D

Question: 27

FILL IN THE 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
```

Answer:

GET, Accept, Authorization

Question: 28

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

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

Answer: CE

Question: 29

Which platform is run directly using a hypervisor?

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

Answer: C

Question: 30

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

Question: 31

DRAG DROP
Refer to the exhibit.

```

bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization: Bearer
A - Fj2zzykEa0911c9GK2j8LtE1HkLH6oRHP0dwlPAt60I7NDThhAwZl2B5ppMg14kK_b9ei59I5ACly7=
NarA-Zn9H-tGgt-SxQ39iDejgcs" -i -d '{"roomId":
B - {"Y2geK53sjELknosrC7Sw05ZGL99pHgiuScB7DfNvUlr8Xx4wDKL1PDRcEkryAnM30mK9LQZsP0G4\
, "text": "test2"}' -X POST https://api.ciscospark.com/v1/messages C
D - HTTP/1.1 200 OK
Via: 1.1 linkerd
Transfer-Encoding: chunked
TrackingID: ROUTER_5E0FE283-63E8-01B8-00ED-006BF1B000ED
E - Date: Sat, 01 Jan 2020 00:55:31 GMT
Server: Redacted
Content-Type: application/json; charset=UTF-8
Vary: Accept-Encoding
Strict-Transport-Security: max-age=63072000; includeSubDomains: preload

{"id": "
YcPjJf3aVovyBYcbn7lSdesNkKcgN5tlExdc6dcnPtl4Va05NfCh9MG17j0twXQL0IPuoJ73uu7JdoXq9
", "roomId": "
Y2geK53sjELknosrC7Sw05ZGL99pHgiuScB7DfNvUlr8Xx4wDKL1PDRcEkryAnM30mK9LQZsP0G4", "
roomType": "group", "text": "test2", "personId": "
YcgYzL6Xgtyfw81XXwqfKf7whfj23KuqWt4klWkbb3JwEJB1VMZ0kLvyBdFoppb0einNj11FcMyy5wD"
, "personEmail": "user@webex.com", "created": "2020-01-01T00:55:32.492Z"}
bash-3.2$
    
```

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

Response Headers	A
HTTP Request	B
HTTP Response	C
Request Payload	D
Request Headers	E
Response Payload	F

Answer:

A - E, B - D, C - B, D - C, E - A, F - F



Question: 32

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. If the directory exists, the script goes into it until there is no directory with the same name, then it creates a new directory.

- B. The script goes into the directory called "\$ndir" and makes a new directory called "\$ndir"
- C. The script waits until input is entered, then it goes into the directory entered and creates a new directory with the same name.
- D. For all directories in the current folder. The script goes into directory and makes a new directory.

Answer: A

Question: 33

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

Question: 34

Which two encoding formats do YANG interfaces support?

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

Answer: AB

Question: 35

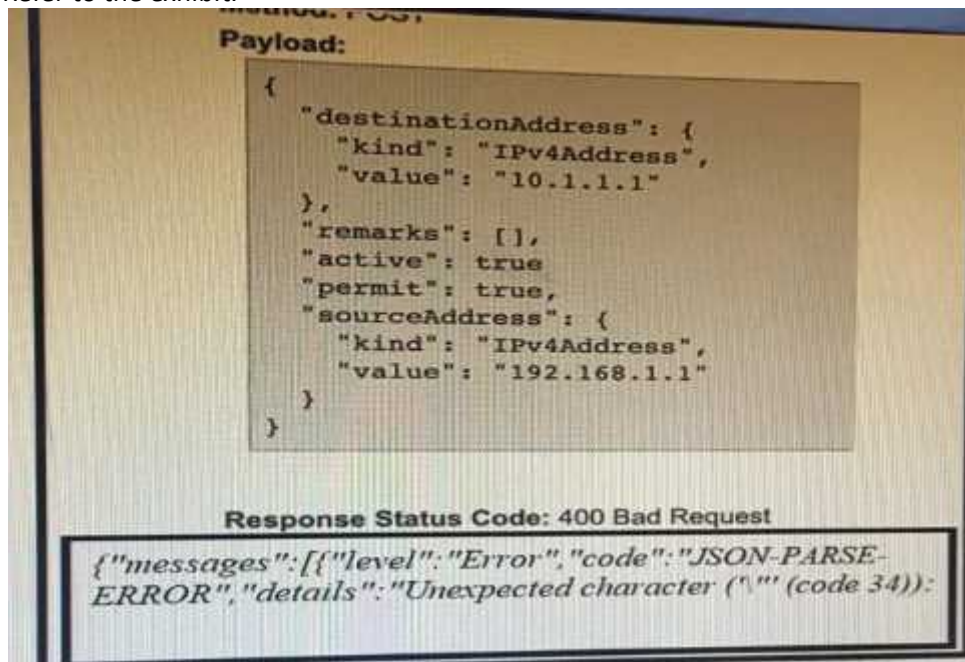
In python, which expression checks whether the script returns a success status code when the Requests library is used?

- A. response.status_code == requests.ok
- B. response.status_code == requests.codes.ok
- C. response.code == requests.codes.ok
- D. response.status_code != requests.codes.ok

Answer: B

Question: 36

Refer to the exhibit.



What caused the error in this API request?

- A. The API resource does not support the POST operation.
- B. The API resource does not support JSON format payloads.
- C. The submitted JSON payload includes a field that is not supported by the API resources.
- D. The submitted JSON payload has a formatting issue.

Answer: D

Question: 37

What is the outcome of executing this command?

```
git clone ssh://john@exmaple.com/path/to/my-project_git
```

- A. Creates a local copy of a repository called "my project"
- B. Creates a copy of a branch called "my project"
- C. Initiates a new Git repository called "my project"
- D. Creates a new branch called "my project"

Answer: A

Question: 38

Refer to the exhibit.

```
def get_result()
    url = "https://sandboxdnac.cisco.com/dna/system/api/v1/auth/token"
    resp = requests.post(url, auth=HTTPBasicAuth(DNAC_USER, DNAC_PASSWORD))
    result = resp.json()['Token']
    return result
```

What does the python function do?

- A. It returns DNAC user and password.
- B. It returns HTTP Basic Authentication.
- C. It returns an authorization token.
- D. It reads a token from a local JSON file and posts the token to the DNAC URL.

Answer: C

Question: 39

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

Question: 40

Refer to the exhibit.

```
json_string = """
{
  "researcher": {
    "name": "Ford Perfect",
    "species": "Betelgeusian",
    "relatives": [
      {
        "name": "Zaphod Beeblebrox",
        "species": "Betelgeusian"
      }
    ]
  }
}
"""
my_json = json.loads(json_string)
```

Which python data structure does my_json contain?

- A. List
- B. Json
- C. Map
- D. Dict

Answer: D

Question: 41

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

Question: 42

DRAG DROP

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.

Answer:

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



Question: 43

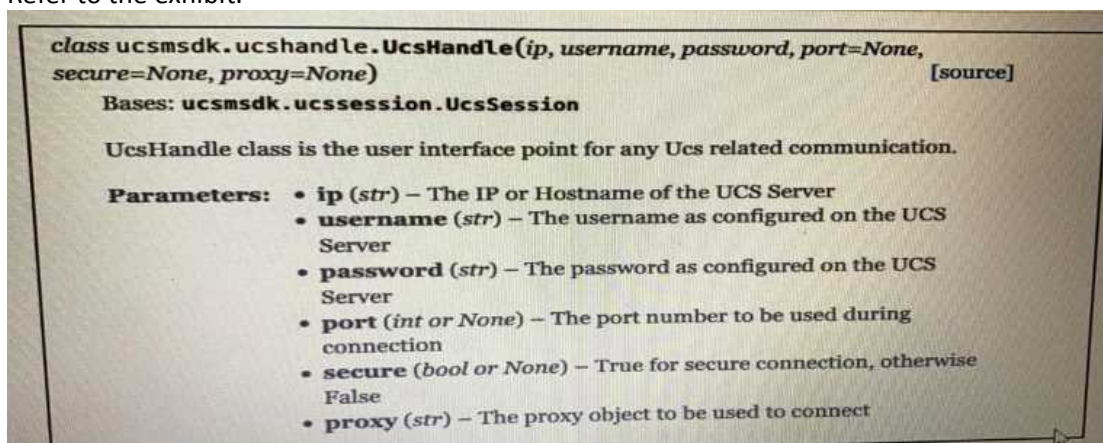
What are two security benefits of a Docker-based application?

- A. easier to patch because Docker containers include only dependencies that the application requires
- B. prevents information leakage that can occur when unhandled exceptions are returned in HTTP responses
- C. allows for separation of application that traditionally run in the same host
- D. natively secures access to secrets that are used by the running application
- E. guarantees container images are secured and free of vulnerabilities

Answer: AC

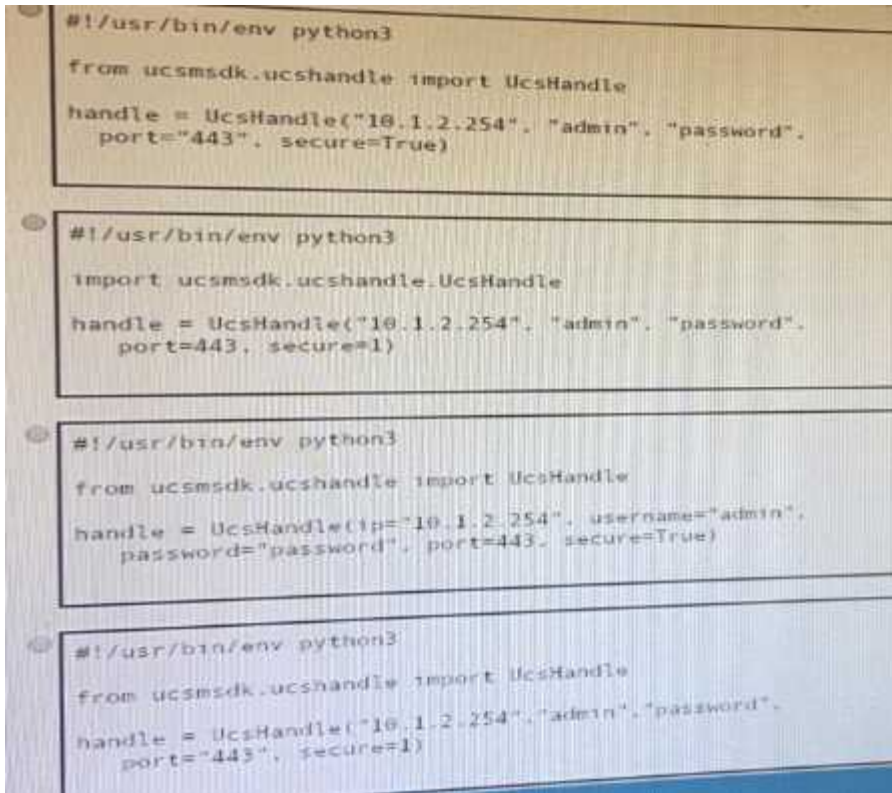
Question: 44

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?

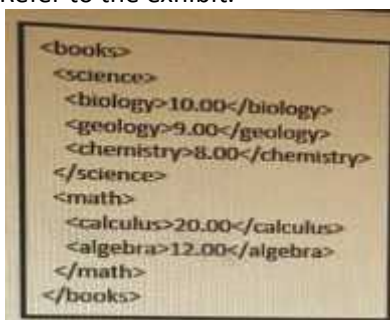


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

Question: 45

Refer to the exhibit.



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

Question: 46

Which Cisco DevNet resource allows access to products in a development lab to explore, learn, and build application that use Cisco APLs?

- A. DevNet communities
- B. DevNet code Exchange
- C. DevNet Automation Exchange
- D. DevNet sandbox

Answer: D

Question: 47

Which two statements are true about Cisco UCS manager, Cisco Intersight APIs? (Choose two.)

- A. Cisco Intersight API interactions can be encoded in XML or JSON and require an APIs key in the HTTP header for authentication.
- B. USC Director API interactions can be XML- or JSON-encoded and require an APLs key in the HTTP header for authentication.
- C. UCS manager API interactions are XML-encoded and require a cookie in the method for authentication.
- D. Cisco Intersight uses XML to encoded API interactions and requires an API key pair for authentication.
- E. UCS manager uses JSON to encode API interactions and utilizes Base64-encoded credentials in the HTTP header for authentication.

Answer: BC

Question: 48

A developer is writing an application that a REST API and the application requires a valid from the API which element of the response is used in the conditional check?

- A. URL
- B. Status code
- C. Link
- D. Body
- E. Headers

Answer: B

Question: 49

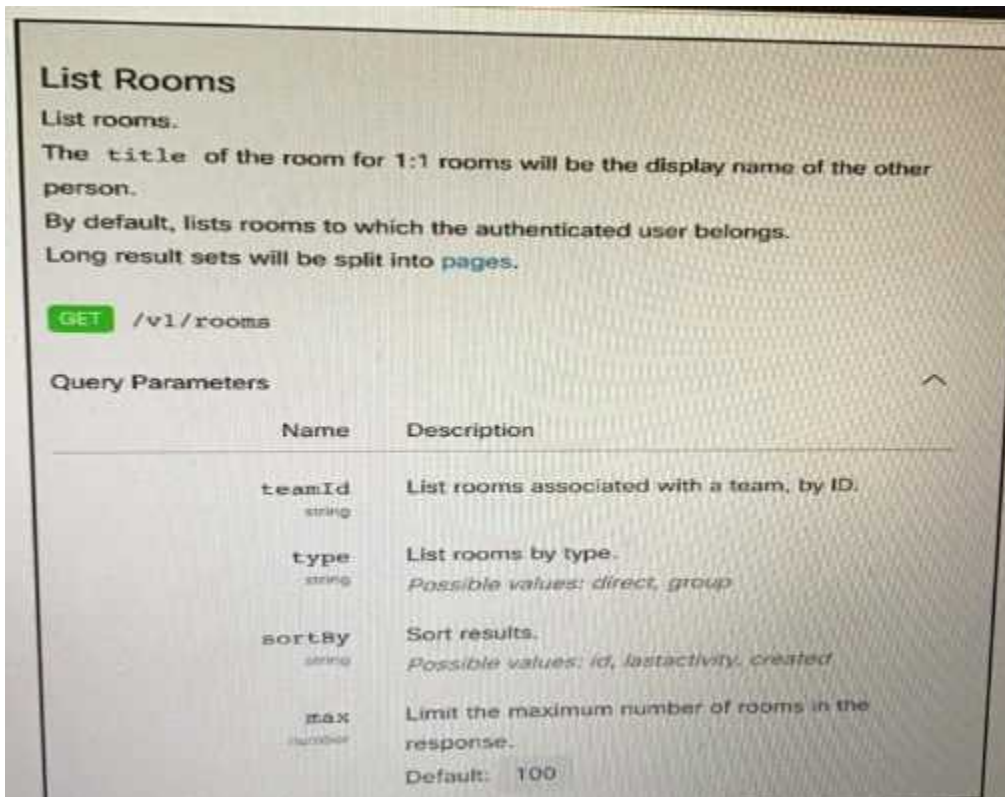
What are two characteristics of Bare Metal environments that are related to application deployment? (Choose two.)

- A. Provide the hypervisor to host virtual servers
- B. Specifically designed for container-based workloads.
- C. Provides workloads with access to hardware features
- D. Suitable for legacy application that do not support virtualization
- E. Not compatible with other cloud services such as PaaS or SaaS offerings.

Answer: CD

Question: 50

FILL IN THE BLANK
Refer to the exhibit.



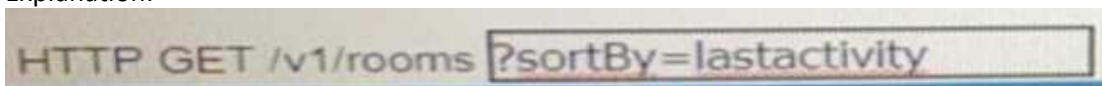
Fill in the blank to complete the query parameter and value so that the result set is returned in reverse chronological order (most recent first) based on when message were entered.

HTTP GET /v1/rooms []

Answer:

?sortBy=lastactivity

Explanation:



HTTP GET /v1/rooms ?sortBy=lastactivity

Question: 51

FILL IN THE BLANK

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

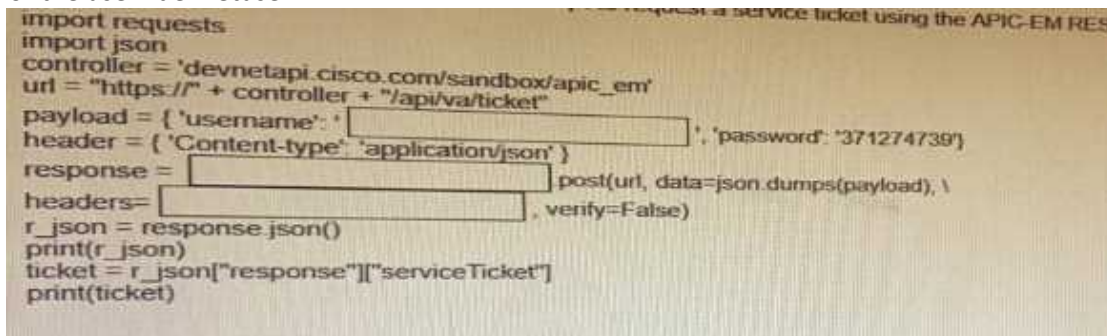
- A. testing existing software before developing new code
- B. refactoring code that is covered by existing tests
- C. writing code without committing any coding violations
- D. **creating test scenarios based on continuous development**

Answer: D

Question: 52

FILL IN THE BLANK

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': '[REDACTED]', 'password': '371274739' }
header = { 'Content-type': 'application/json' }
response = [REDACTED] post(url, data=json.dumps(payload), \
headers=[REDACTED], verify=False)
r_json = response.json()
print(r_json)
ticket = r_json["response"]["serviceTicket"]
print(ticket)

```

Answer:

devnetuser, requests, header

Question: 53

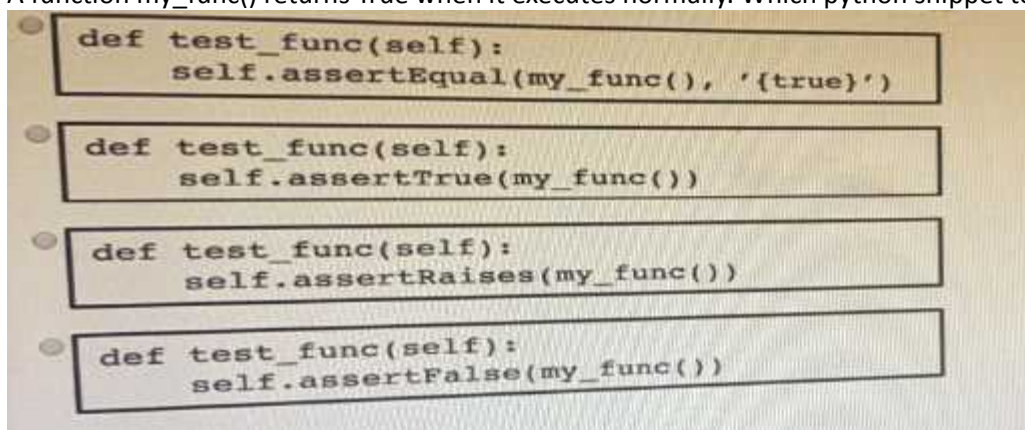
Which two statements describe the traits of an asynchronous API call? (Choose two.)

- A. The order in which API calls return can be guaranteed
- B. A call to an API does not block the code, but rather it allows application processing to continue
- C. The end user can experience latency or performance lag while waiting for the API call to return
- D. Code execution blocks or waits for the call to an API to return.
- E. A callback function typically is used to process the response from an API call

Answer: BE

Question: 54

A function `my_func()` returns True when it executes normally. Which python snippet tests `my_func()`?



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

Answer: B

Question: 55

When using the Bash shell, how is the output of the `devnet` command saved to a file named "output.txt"?

- A. `devnet & output.txt`
- B. `devnet > output.txt`
- C. `devnet < output.txt`

D. devnet | output.txt

Answer: B

Question: 56

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

Question: 57

What is an example of a network interface hardware address?

- A. domain name
- B. IP address
- C. workstation name
- D. MAC address

Answer: D

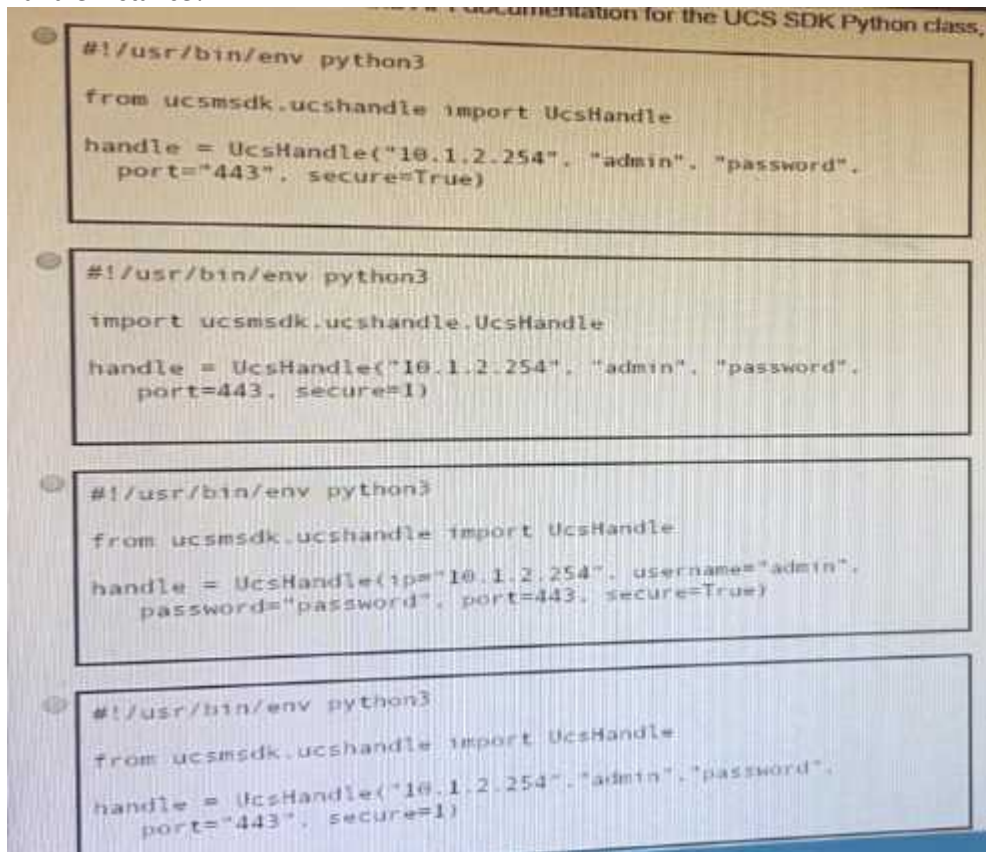
Question: 58

Refer to the exhibit.

```
class ucsm sdk . ucshandle . Uc sHandle (ip, username, password, port=None,
secure=None, proxy=None) [source]
Bases: ucsm sdk . uc ssession . Uc sSession
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?



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

Answer: B

Question: 59

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

Question: 60

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?

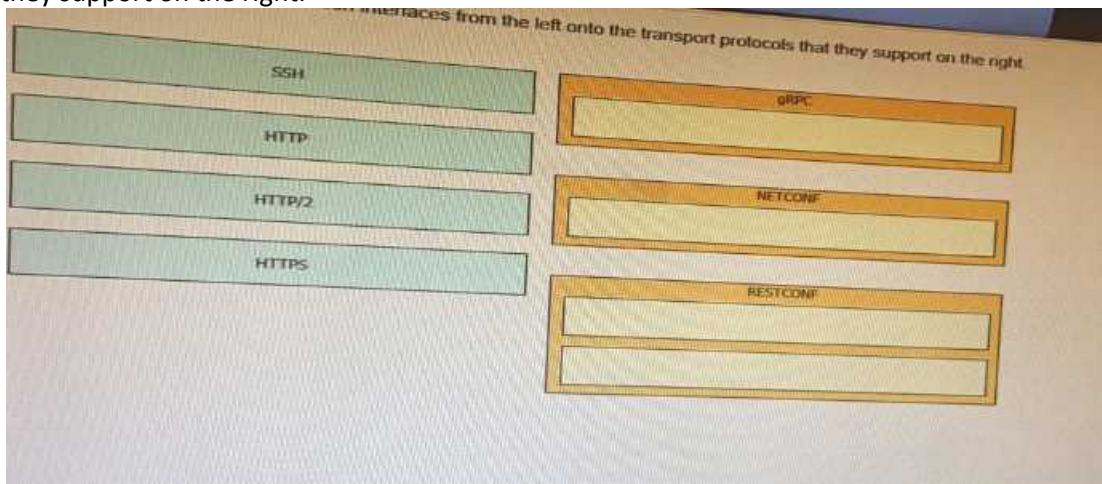
- A. pagination
- B. payload limit
- C. rate limiting
- D. service timeouts

Answer: A

Question: 61

DRAG DROP

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right.



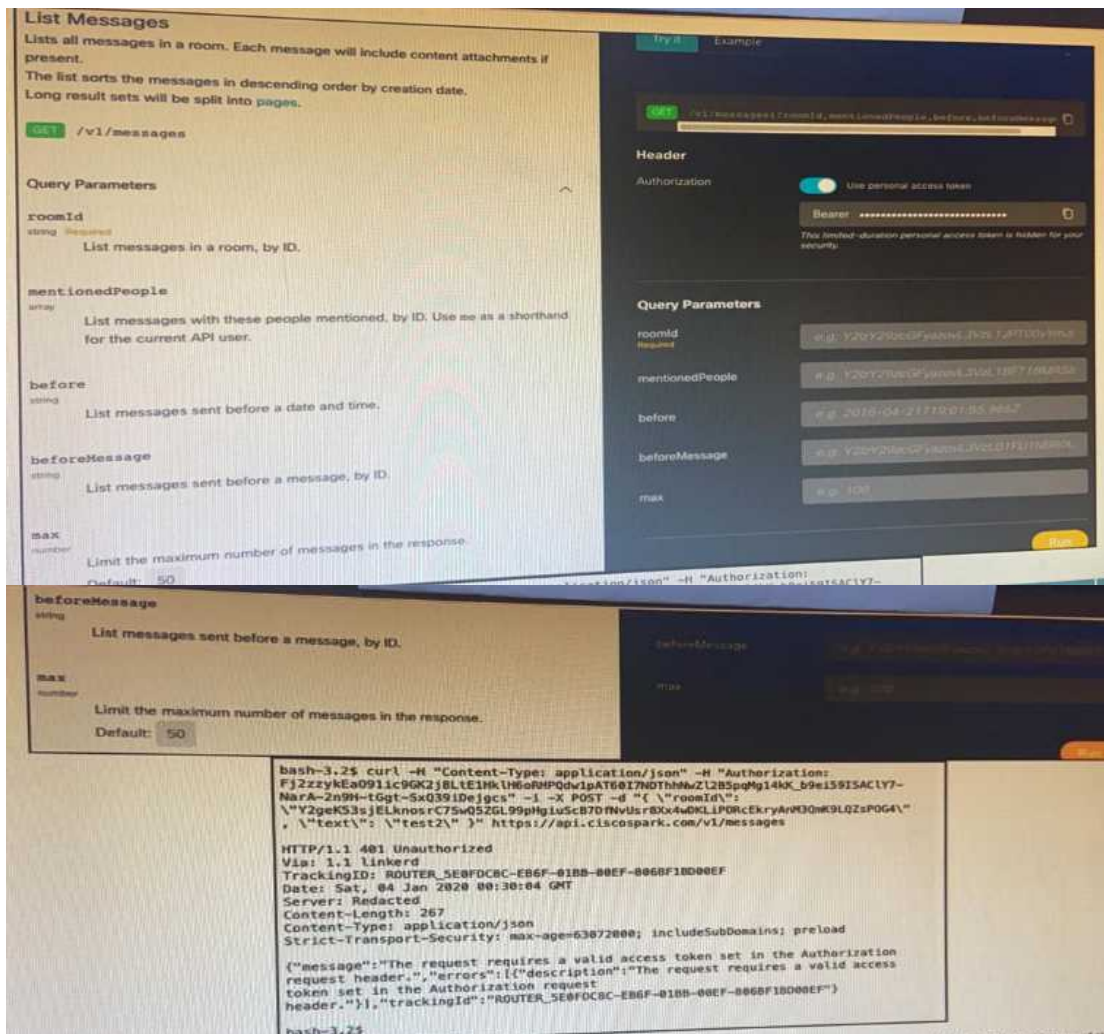
Answer:

gRPC = C, NETCONF = A, RESTCONF = B, D



Question: 62

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

Question: 63

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

Question: 64

Which two use cases are supported by Meraki APIs? (Choose two.)

- A. Retrieve live streams from a Meraki Camera.
- B. Build a custom Captive Portal for Mobile Apps.
- C. Configure network devices via the Dashboard API.
- D. Build location-aware apps from Wi-Fi and LoRaWAN devices.
- E. Deploy applications onto the devices.

Answer: BC

Question: 65

Package updates from a local server fail to download. However, the same updates work when a much slower external repository is used. Why are local updates failing?

- A. The update utility is trying to use a proxy to access the internal resource.
- B. The Internet connection is too slow.
- C. The Internet is down at the moment, which causes the local server to not be able to respond.
- D. The server is running out of disk space.

Answer: A

Question: 66

What should a CI/CD pipeline aim to achieve?

- A. to allow manual testing before deployment
- B. to require minimal manual interaction
- C. to support new deployments on a fixed monthly schedule
- D. to provide a documented process for feedback

Answer: B

Question: 67

What are two benefit of managing network configuration via APIs? (Choose two.)

- A. configuration on devices becomes less complex
- B. more security due to locking out manual device configuration
- C. increased scalability and consistency of network changes
- D. eliminates the need of legacy management protocols like SNMP
- E. reduction in network changes performed manually

Answer: CE

Question: 68

Which CI/CD tool is an automation tool used to build, test, and deploy software?

- A. Nagios
- B. Gradle
- C. Jenkins
- D. Git

Answer: C

Question: 69

DRAG DROP

Drag and drop the descriptions from the left onto correct application deployment models on the right.



Answer:

1 – B, 2 – E, 3 – C, 4 – D, 5 – A

Question: 70

Which two statements describe the advantages of using a version control system? (Choose two.)

- A. It allows for branching and merging so that different tasks are worked on in isolation before they are merged into a feature or master branch.
- B. It allows multiple engineers to work against the same code and configuration files and manage differences and conflicts.
- C. It provides tooling to automate application builds and infrastructure provisioning.
- D. It allows developers to write effective unit tests.
- E. It provides a system to track User Stories and allocate to backlogs.

Answer: AB

Question: 71

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

Question: 72

FILL IN THE BLANK

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 sending HTTP requests to an API that uses _____ authentication.

Answer:

devnet:Cisco123, Basic

Explanation:

Solution as below

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.

Question: 73

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 ZGV2Z29xvCGVvOktxc2hvMTIzODU=' -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

Question: 74

Which two NETCONF operations cover the RESTCONF GET operation? (Choose two.)

- A. <get>
- B. <edit>
- C. <get-update>
- D. <modify-config>
- E. <get-config>

Answer: AE

Question: 75

Which product provides network controller-level management features?

- A. Cisco DNA Center
- B. Cisco NX-OS
- C. Cisco UCS Manager
- D. Cisco ISE

Answer: A

Question: 76

DRAG DROP

Refer to the exhibit.

HTTP REQUEST
POST /organizations/{organizationId}/networks

PARAMETERS

name
 The name of the new network

type
 The type of the new network. Valid types are wireless, appliance, switch, systemsManager, camera, cellularGateway, or a space-separated list of those for a combined network.

tags
 A space-separated list of tags to be applied to the network

timeZone
 The timezone of the network. For a list of allowed timezones, please see the "TZ" column in the table in [this article](#).

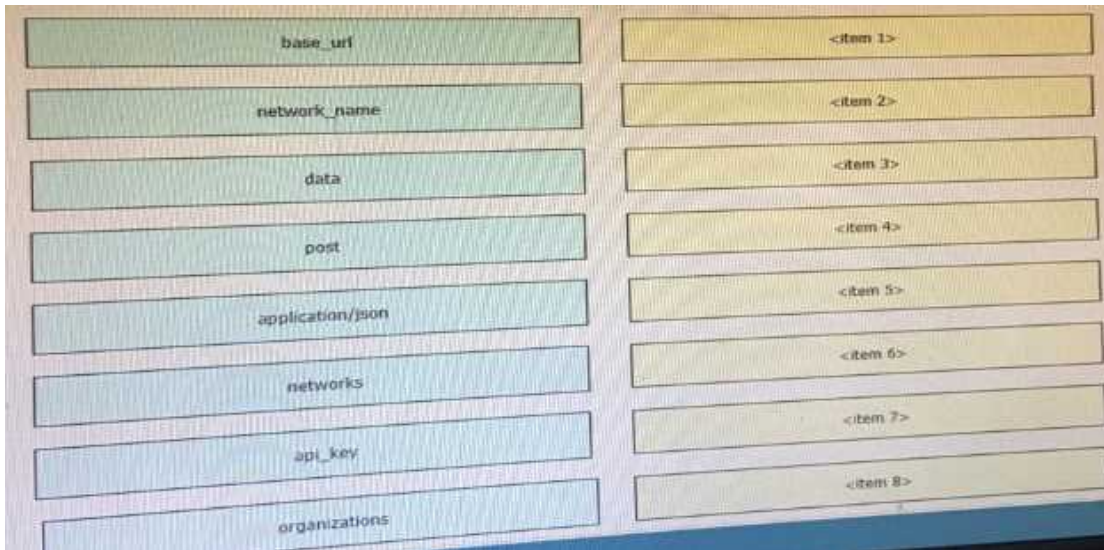
copyFromNetworkId
 The ID of the network to copy configuration from. Other provided parameters will override the copied configuration, except type which must match this network's type exactly.

disableMyMerakiCom
 Disables the local device status pages ([my.meraki.com](#), [go.meraki.com](#), [switch.meraki.com](#), [wired.meraki.com](#)). Optional (defaults to false)

disableRemoteStatusPage
 Disables access to the device status page ([http://\[device's LAN IP\]](#)). Optional. Can only be set if `disableMyMerakiCom` is set to false

```
base_url = https://api.meraki.com/api/v0
org_id = 123456789
api_key = 1098hadpfsiapsf8ahf8ohp
network_name = "New Network"
requests.<item 1>(<item 2> + "/<item 3>/" + org_id + "/<item 4>",
headers = {
    "X-Cisco-Meraki-API-Key": "<item 5>",
    "Content-Type": "<item 6>"
},
<item 7>=json.dumps({ "name": <item 8>,
    "type": "wireless switch"
}))
```

Drag and drop the code from the left onto the item numbers on the right to complete the Meraki python script shown in the exhibit.



Answer:



Question: 77

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 interactions
- D. customer collaboration over contract negotiation

Answer: D

Question: 78

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

Question: 79

DRAG DROP

Drag and drop the Docker file instructions from the onto correct descriptions on the right. Not all options are used.

FROM ubuntu:12.04	informs Docker that the container listens on the specified network port(s) at runtime
VOLUME ["/var/www", "/var/log/apache2", "/etc/apache2"]	creates a mount point with the specified name
RUN apt-get update && apt-get install -y --force-yes apache2	configures a container that runs as an executable
ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]	must be the first instruction in the Docker file
EXPOSE 1521	

Answer:

1 – E, 2 – B, 3 – D, 4 – A



Question: 80

Refer to the exhibit.

```

$ diff -u5 fish.py cat.py
--- fish.py      2020-01-02 09:41:02.840000000 +0100
+++ cat.py      2020-01-02 09:41:06.885999800 +0100
@@ -160,11 +160,12 @@

     @single_request_timeout.setter
     def single_request_timeout(self, value):
         """The timeout (seconds) for a single HTTP REST API request."""
         check_type(value, int, optional=True)
         assert value is None or value > 0
-
+         if value is not None and value <= 0:
+             raise ValueError("single_request_timeout must be positive integer")
         self._single_request_timeout = value

     @property
     def wait_on_rate_limit(self):
         """Automatic rate-limit handling.

```

The output of a unified diff when comparing two versions of a python script is shown. Which two “single_request_timeout ()”

The image shows four screenshots of code editors, each displaying a different version of the `single_request_timeout` method. The first screenshot (Option A) shows the method from `fish.py` with lines 160-168, missing the `if` block. The second screenshot (Option B) shows the method from `cat.py` with lines 172-180, including the `if` block. The third screenshot (Option C) shows the method from `fish.py` with lines 160-167, including the `if` block. The fourth screenshot (Option D) shows the method from `cat.py` with lines 160-168, including the `if` block.

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

Answer: BC

Question: 81

Which two statements about JSON and XML are true? (Choose two.)

- A. JSON objects are collection of key value pairs.
- B. The syntax of JSON contains tags, elements, and attributes.
- C. JSON arrays are an unordered set of key value pairs.
- D. The syntax of XML contains tags, elements, and attributes.
- E. XML objects are collections of key-value pairs.

Answer: AD

Question: 82

A company has written a script that creates a log bundle from the Cisco DNA Center every day. The script runs without error and the bundles are produced. However, when the script is run during business hours, report poor voice quality of phone calls. What explains this behavior?

- A. The application is running in the Voice VLAN and causes delays and jitter in the subnet.
- B. The speed and duplex settings in Cisco DNA Center are set incorrectly, which causes the transfer to be too slow.
- C. The script is written in a low-level programming language where there is no memory safety. This causes a buffer overflow and disruption on the network.
- D. Generating the logs causes the CPU on the network controller to spike, which causes delays in forwarding the voice IP packets.

Answer: D

Question: 83

Refer to the exhibit.

```
container ethernet {
  must "../if:location" {
    description
      "An ethernet interface must specify the physical location of the ethernet hardware.";
  }
  choice transmission-params {
    case auto {
      leaf auto-negotiate {
        type empty;
      }
    }
    case manual {
      leaf duplex {
        type enumeration {
          enum "half";
          enum "full";
        }
      }
      leaf speed {
        type enumeration {
          enum "10Mb";
          enum "100Mb";
          enum "1Gb";
          enum "10Gb";
        }
      }
    }
  } // other ethernet specific params...
}
```

What is represented in this YANG module?

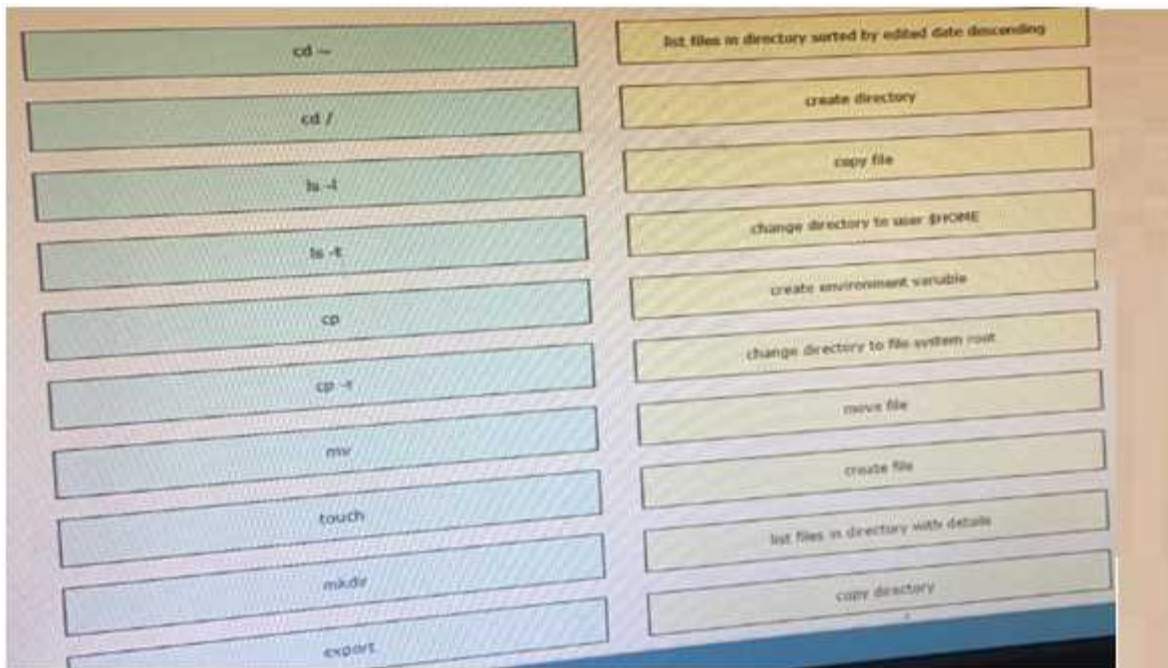
- A. interface management
- B. topology
- C. BGP
- D. OpenFlow

Answer: A

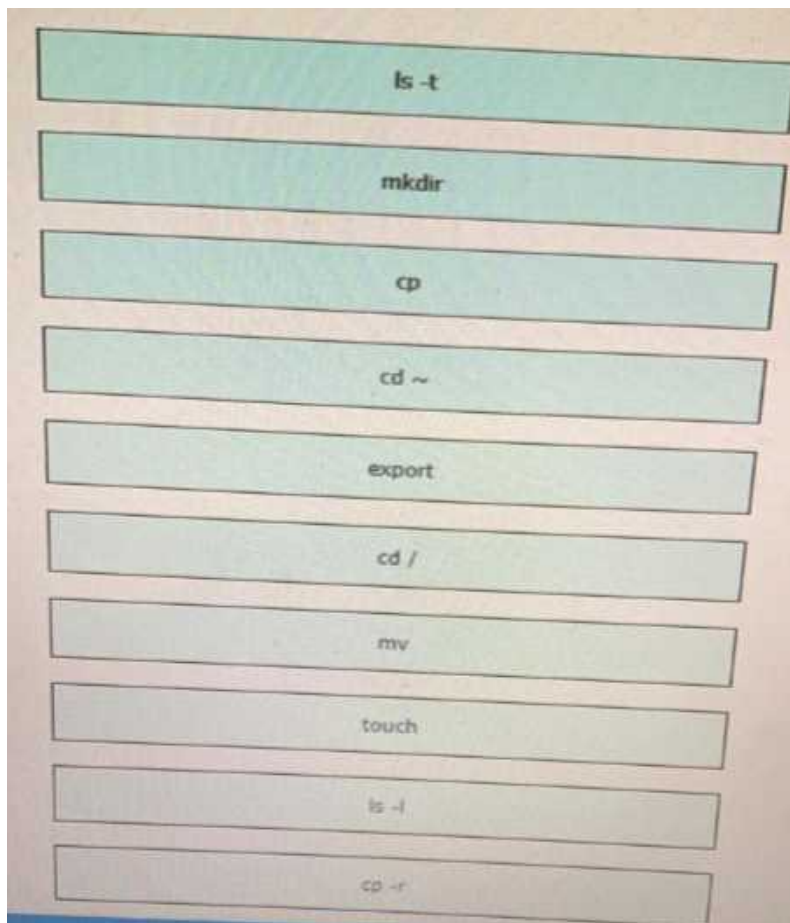
Question: 84

DRAG DROP

Drag and Drop the Bash commands from the left onto the correct actions on the right.



Answer:



Question: 85

Refer to the exhibit.

```
docker run -p 3000:5000 f877cbf2ff33
```

A process on the host wants to access the service running inside this Docker container. Which port is used to make a connection?

- A. only outbound connections between 3000 and 5000 are possible
- B. port 3000
- C. any port between 3000 and 5000
- D. port 5000

Answer: B

Question: 86

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

Question: 87

DRAG DROP

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

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

Answer:



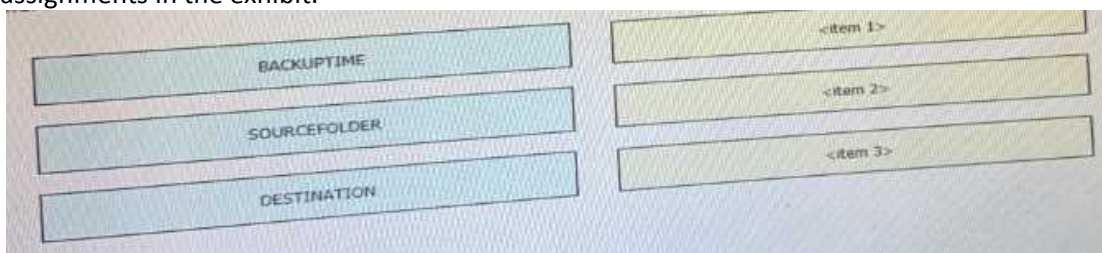
1 - D, 2 - C, 3 - A, 4 - B

Question: 88

DRAG DROP
Refer to the exhibit.

```
#!/bin/bash
<item 1>=`date +%b-%d-%y`
<item 2>=/home/usr/path/backup-$BACKUPTIME.tar.gz
<item 3>=/home/usr/path/data_folder
tar -cpzf $DESTINATION $SOURCEFOLDER
```

Drag and drop the variables from the left onto the item numbers on the right that match the missing assignments in the exhibit.



Answer:

1 – A, 2 – C, 3 – B



Question: 89

On which network plane is routing protocol traffic handled?

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

Answer: D

Question: 90

Which type of HTTP method is used by the Meraki nad webex teams APIs to send webhook notifications?

- A. HTTP GET
- B. HTTP PUT
- C. HTTP HEAD
- D. HTTP POST

Answer: D

Question: 91

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

Question: 92

FILL IN THE BLANK

Fill in the blanks to complete the statement.

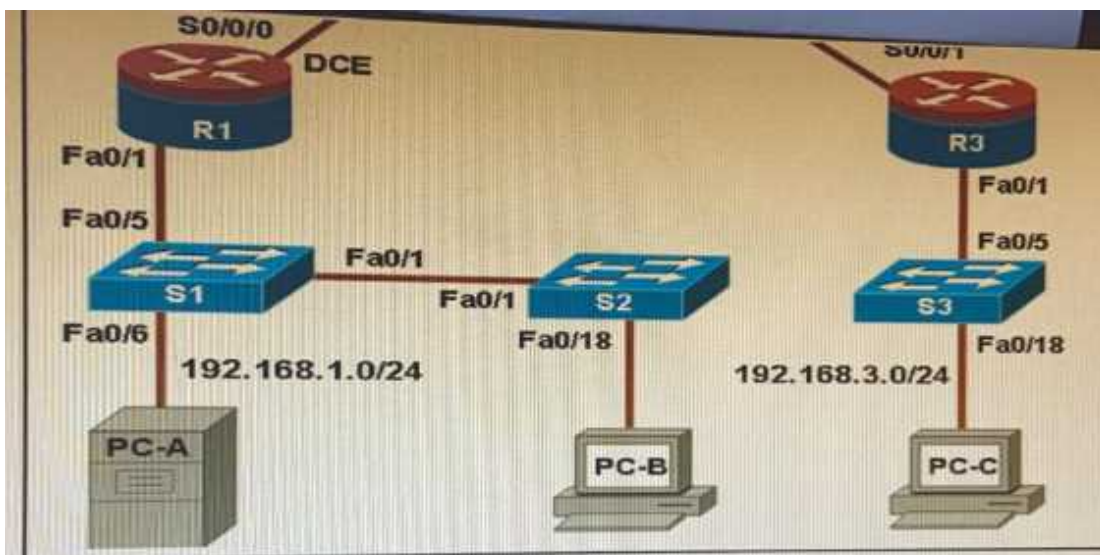
Cisco DNA provide the capability to send an HTTP _____ request to the API endpoint https://DNA-c_API_ADDRESS/api/vi/network-device/ and receive the network _____ list in _____ format.

Answer:

GET, device, JSON

Question: 93

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

Question: 94

DRAG DROP

Drag and drop the HTTP status codes from the left onto the correct descriptions on the right.

400	Unauthorized
401	Not Found
403	Bad Request
404	Forbidden

Answer:

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



Question: 95

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

Question: 96

DRAG DROP

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.

Answer:

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

Question: 97

Refer to the exhibit.

An administrator attempts to perform a GET using the Cisco IOS XE RESTCONF API to return the hostname of a device. The sequence diagram illustrated the HTTP message observed. Which change to the API request resolves the issue?

- A. Add Content-Type HTTP header with 'application/yang-data+json' using -H 'Content-Type: application/yang-data+json'.
- B. Use -u cisco: cisco instead of -u 'cisco: cisco'.
- C. Change the request method from -X "GET" to -X "POST".
- D. Remove the -H 'Accept: application/yang-data+json' HTTP header because it is not required.

Answer: B

Question: 98

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

Question: 99

Refer to the exhibit.

```

>>> from cli import *
>>> import json

>>>
>>> cli('configure terminal ; interface loopback 5 ; no shut')
..
>>> intflist=json.loads(clic('show interface brief'))
>>> i=0
>>> while i < len (intflist['TABLE_interface']['ROW_interface']):
...     intf=intflist['TABLE_interface']['ROW_interface'][i]
...     i=i+1
...     if intf['state'] == 'up':
...         print intf['interface']

```

The python interpreter and the Cisco python SDK are available by default in the Cisco NX-OS software. The SDK documentation shows how the clic() API can be used when working with working with JSON and XML. What are two effect of running the script? (Choose two.)

- A. configure interlace loopback 5
- B. issue shutdown on interface loopback 5
- C. show only the interfaces In the up status
- D. show only the interfaces in admin shut status

E. show details for the TABLE interface

Answer: AC

Question: 100

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: iot-vlan
      interfaces:
        - GigabitEthernet0/5
  
```

Which two statements describe the configuration of the Ansible script is 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. GiabitEthernet0/1 is left unconfigured.

Answer: BD

Question: 101

What are two advantages of the Model-view-controller software design pattern? (Choose two.)

- A. simplifies network automation
- B. allows for multiple views of the same model
- C. makes code easier to deploy using CI/CD pipelines
- D. reduces need for error handling
- E. separates responsibilities of the code, which makes future modifications easier

Answer: BE

Question: 102

DRAG DROP

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.

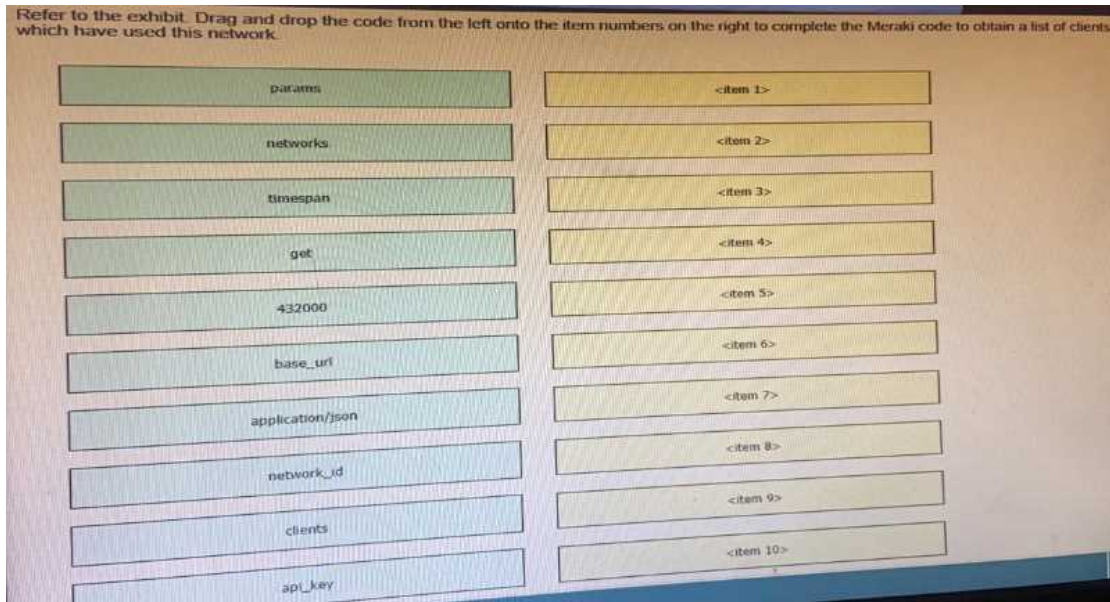
base_url = "https://api.meraki.com/api/v0"

```

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.



Answer:



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

Question: 103

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

Question: 104

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

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

Answer: C

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