Number: 350-901 Passing Score: 800 Time Limit: 120 File Version: 12.0

Exam Code: 350-901

Exam Name: Developing Applications using Cisco Core Platforms and APIs (DEVCOR)



Exam A

QUESTION 1

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing on the Ansible task to enable a VLAN on a Meraki MX device. Not all options are used.

Select and Place:

Answer Area

```
name: Create combined network
meraki network:
  auth_key: "{{ meraki_api_key }}"
net_name: "{{ item }}"
  org_id: "{{ meraki_org_id }}"
  type:
    -switch
    -wireless
    -appliance
  timezone: Europe/London
  tags: staging, uk
loop: "{{ network_ids }}"
delegate to: localhost
register: result
name: Enable VLAN support on MX
  ri:
url: "https://api.meraki.com/api/v0/networks/{{ item.data.id }}/vlansEnabledState"
uri:
  return content: yes
  headers:
    X-Cisco-Meraki-API-Key: "{{ meraki_api_key }}"
  body:
    enabled: true
  follow redirects: all
  status_code: 200
  body format: json
delegate to: localhost
            loop: "{{ result.results }}"
                                           method: PUT
            when: "{{ result.results }}"
                                           method: PATCH
                                body: application/json
```

Answer Area

```
name: Create combined network
meraki network:
 auth_key: "{{ meraki_api_key }}"
net_name: "{{ item }}"
 org_id: "{{ meraki_org_id }}"
 type:
    -switch
   -wireless
    -appliance
  timezone: Europe/London
 tags: staging, uk
loop: "{{ network_ids }}"
delegate_to: localhost
register: result
name: Enable VLAN support on MX
uri:
 url: "https://api.meraki.com/api/v0/networks/{{ item.data.id }}/vlansEnabledState"
  return content: yes
 headers:
   X-Cisco-Meraki-API-Key: "{{ meraki_api_key }}"
 body:
    enabled: true
  follow redirects: all
  status code: 200
 body_format: json
  method: PUT
delegate to: localhost
loop: "{{ result.results }}"
                                                                         dumps
            when: "{{ result.results }}" method: PATCH
                              body: application/json
```

Section:

Explanation:

QUESTION 2 DRAG DROP

```
"""Create UCS Server Pool and associate to template """
from ucsmsdk.ucshandle import UcsHandle
from ucsmsdk.mometa.compute.ComputePool import ComputePool
from ucsmsdk.mometa.compute.ComputePooledSlot import ComputePooledSlot
from ucsmsdk.mometa.ls.LsRequirement import LsRequirement
HANDLE = item 1 ("sandbox-ucsml.cisco.com",
                  "admin",
                  "password")
HANDLE.login()
SERVER POOL = item 2 (parent mo or dn="org-root/org-devnet",
                    name="devcore_pool")
HANDLE. item 3 (SERVER POOL, modify present=True)
for blade in HANDLE.query classid(
  "computeBlade",
  filter str='(chassis id, "7")'
  SERVER - item 4 (
     parent_mo_or_dn=SERVER_POOL,
     chassis id-blade.chassis id,
     slot id=blade.slot id
  HANDLE.add mo (SERVER, modify present-True)
HANDLE.commit()
SP TEMPLATE = item 5 (parent mo or dn="org-root/org-devnet/ls-devcore template",
                                                                              U-dumps
                    name="devcore pool")
HANDLE add mo (SP TEMPLATE, modify present=True)
HANDLE. item 6 ()
HANDLE. item 7 ()
```

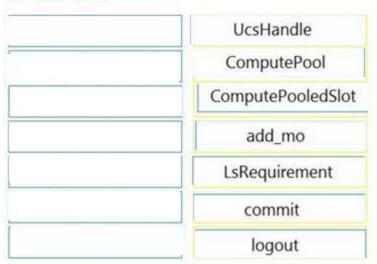
Refer to the exhibit above and click on the resource tabs in the top left corner to view resources to help with this question. Python code using the UCS Python SDK is creating a server pool named "devcore_pool" and populating the pool with all servers from chassis 7, and then the server pool is associated to existing Service Profile template "devcore_template". Drag and drop the code from the left onto the item numbers on the right that match the missing sections in the Python exhibit.

Select and Place:

Answer Area

add_mo	<item 1=""></item>
ComputePooledSlot	<item 2=""></item>
ComputePool	<item 3=""></item>
UcsHandle	<item 4=""></item>
commit	<item 5=""></item>
LsRequirement	<item 6=""></item>
logout	<item 7=""></item>

Answer Area



Section:

Explanation:

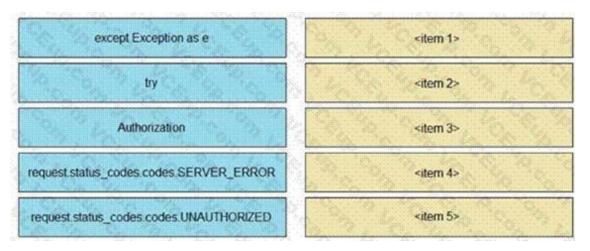
QUESTION 3

DRAG DROP

```
import requests, json, sys
token = ""
def get dnac devices():
     <item 1>:
         url = "https://sanboxdnac.cisco.com/dna/intent/api/v1/network-device"
         payload = {}
         headers = { 'Content-Type': 'application/json',
                     'Accept': 'application/json', 'x-auth-token': token }
         response = requests.request("GET", url, headers-headers, data = payload)
         response.raise for status()
         return response.text
         if str(<item 3>) in str(e):
            create dnac token()
def create dnac token():
         url = "https://sanboxdnac2.cisco.com/dna/system/api/v1/auth/token"
         payload = {}
         headers ={ '<item4>': 'Basic ZGV2bmV0dXNlcjpDaXNjbzEyMyE=',
                    'Content-Type': 'application/json' )
         response = requests.request("POST", url, headers=headers, data = payload)
         response.raise for status()
         return response.json()["Token"]
     except Exception as e:
         if str(<item 5>) in str(e):
              sys.exit("DNAC Service is not reachable")
              -- " main_
if
      name
    token = create dnac token()
    print(get dnac devices())
```



Refer to the exhibit. Drag and drop the code snippets from the left onto the item numbers on the right that match the missing sections in the exhibit to complete the script to implement control flow.



Correct Answer:

	try
	except Exception as e
	equest status_codes.codes.UNAUTHORIZED
	Authorization
re	quest status_codes codes SERVER_ERROR

U-dumps

Section:

Explanation:

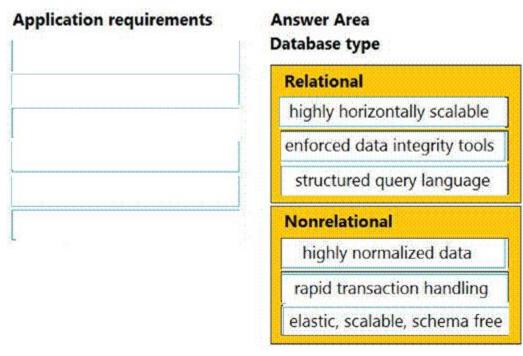
QUESTION 4

DRAG DROP

Drag and drop the application requirement on the left onto the database type that should be selected for the requirement on the right.

Application requirements rapid transaction handling highly horizontally scalable enforced data integrity tools elastic, scalable, schema free structured query language highly normalized data Answer Area Database type Relational Nonrelational

Correct Answer:





Section:

Explanation:

QUESTION 5

DRAG DROP

Drag and drop the steps on the left into the order on the right for an end-user to access an OAuth2 protected resource using the 'Authorization Code Grant' flow.

Answer Area

end-user initiates authentication OAuth client	step 1
OAuth client requests access token from authorization server	step 2
OAuth client requests a resource on the resource server	step 3
OAuth client receives access token from authorization server	step 4
OAuth client receives an authorization code	step 5
OAuth client communicates with authorization server to display login UI	step 6
end-user authenticates with the authorization server	step 7

Correct Answer:

Answer Area

Answer Area	
	OAuth client requests a resource on the resource server
	OAuth client receives access token from authorization server
	end-user initiates authentication OAuth client
	OAuth client requests access token from authorization server
	OAuth client communicates with authorization server to display login UI
	end-user authenticates with the authorization server
	OAuth client receives an authorization code

Section:

Explanation:

QUESTION 6 DRAG DROP Drag and drop the code from the bottom onto the box where the code is missing in the snippet to complete this Ansible playbook. Not all options are used.

Select and Place:

```
- hosts: ios
  gather facts: no
  vars:
    dns servers:
      -ip name-server
      -ip name-server 208.67.220.220
  tasks:
  - name: set name-server commands
    with items: "{{
                                     }}"
    ios config:
      lines:
        -"{{ item }}"
    register: set dns
       name-server
                     208.67.222.222
```

dns_servers dns-address

Correct Answer:

```
---
- hosts: ios
gather_facts: no
vars:

dns_servers:
    -ip name-server 208.67.222.222
    -ip name-server 208.67.220.220

tasks:

- name: set name-server commands
with_items: "{{ dns-address }}"
ios_config:
    lines:
    -"{{ item }}"
register: set_dns
```

```
name-server
dns_servers
```

Section:

Explanation:



QUESTION 7

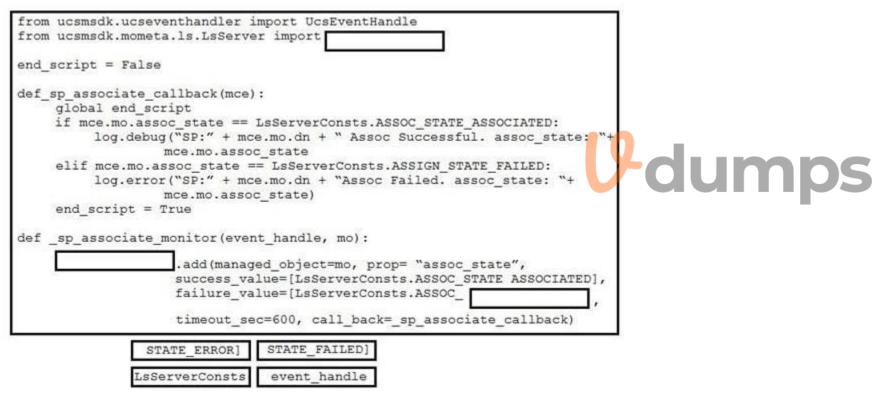
DRAG DROP

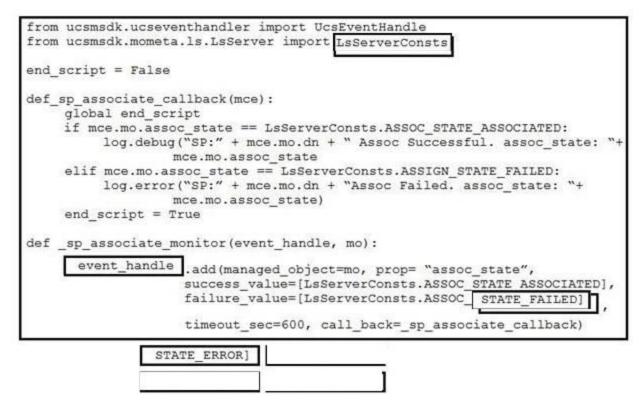
```
class ucsmsdk.mometa.ls.LsServer.LsServerConsts

ASSIGN_STATE_ASSIGNED= 'assigned'
ASSIGN_STATE_FAILED= 'failed'
ASSIGN_STATE_UNASSIGNED= 'unassigned'
ASSOC_STATE_ASSOCIATED= 'associated'
ASSOC_STATE_ASSOCIATING= 'associating'
ASSOC_STATE_DISASSOCIATING= 'disassociating'
ASSOC_STATE_FAILED= 'failed'
ASSOC_STATE_UNASSOCIATED= 'unassociated'
CONFIG_STATE_APPLIED= 'applied'
CONFIG_STATE_APPLYING= 'applying'
CONFIG_STATE_FAILED_TO_APPLY= 'failed-to-apply'
CONFIG_STATE_NOT_APPLIED= 'not-applied'
```

Refer to the exhibit. Drag and drop the code snippets from the bottom onto the blanks in the code to provision a new UCS server. Not all options are used.

Select and Place:





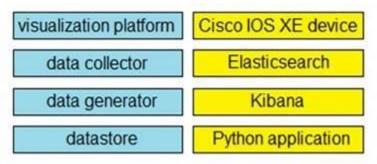
Explanation:

QUESTION 8

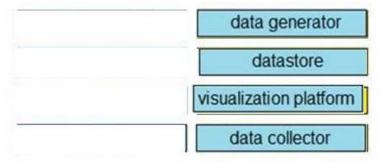
DRAG DROP

A Python application is being written to run inside a Cisco IOS XE device to assist with gathering telemetry data. Drag and drop the elements of the stack from the left onto the functions on the right to collect and display the telemetry streaming data.

Select and Place:



Correct Answer:



Section:

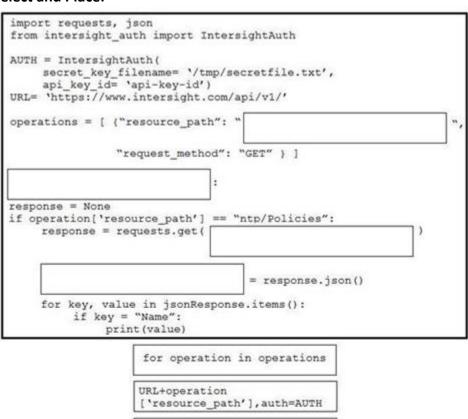
Explanation:

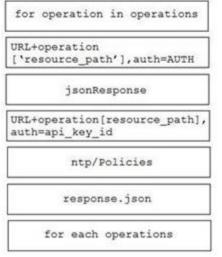
QUESTION 9

DRAG DROP

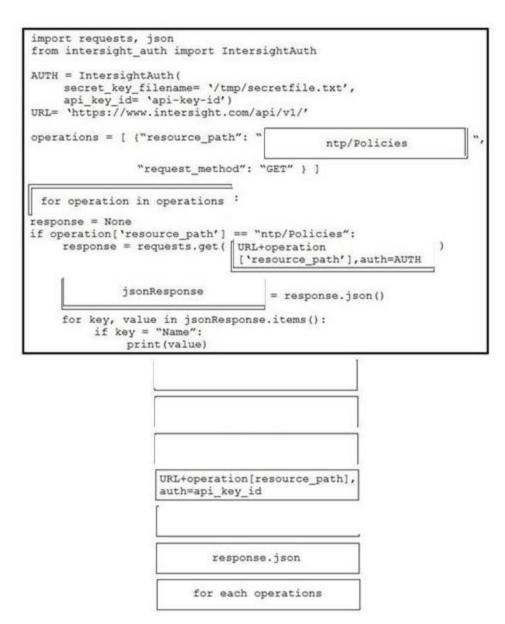
Drag and drop the code from the bottom onto the box where the code is missing in the Python script to execute a REST API call to query all the NTP policy names and print the name of each policy. Not all options are used.

Select and Place:









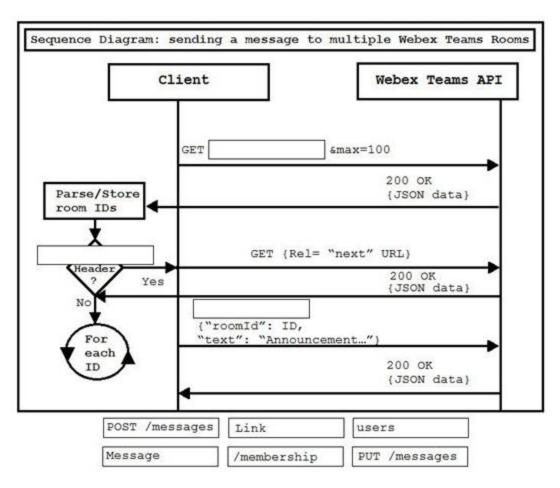


Explanation:

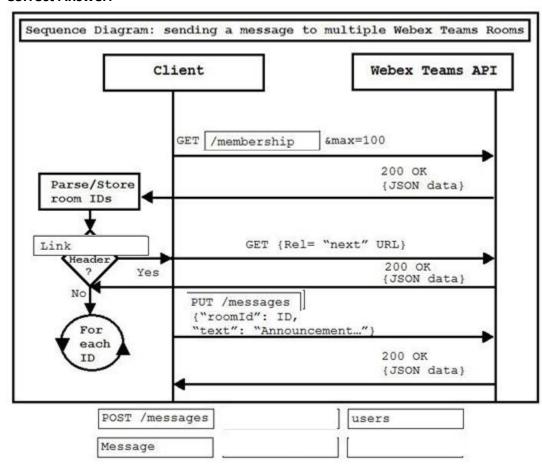
QUESTION 10

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing in the diagram to show how data is processed in Webex Teams. Not all options are used.



Correct Answer:



U-dumps

Section:

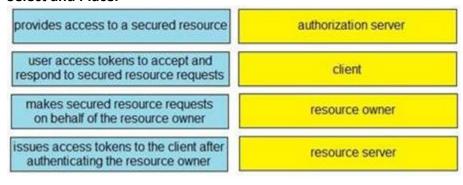
Explanation:

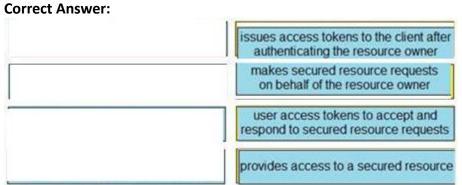
QUESTION 11

DRAG DROP

Drag and drop the descriptions from the left onto the related OAuth-defined roles on the right.

Select and Place:







Section:

Explanation:

QUESTION 12

DRAG DROP

Drag and drop the expressions from below onto the code to implement error handling. Not all options are used.

Answer Area

if status == 601: else: when:

Correct Answer:

Answer Area

```
base_url = "https://api.meraki.com/api/v0"
posturl = '%s/networks/%s/staticRoutes' % ((str(base_url), str(networkid)))
headers - (
      'x-cisco-meraki-api-key': api_key,
       'Content-Type': 'application/json'
      "subnet": "10.16.4.0/22",
"gatewayIp": "10.1.0.20",
"name": "ROUTE1",
      "enabled": true
      "subnet": "10.253.254.0/24",
      "gatewayIp": "10.1.0.20",
"name": "ROUTE2",
"enabled": true
      "subnet": "10.168.0.0/21",
      "gatewayIp": "10.1.0.20",
       "name": "ROUTE3",
      "enabled": true
     print("Adding static: " + str(route('subnet'))
response = requests.post(posturl, json-route, headers-headers)
      status = response.status_code
     if status == 201:}
      print("Done!")
      print("Failed to add static: " + str(route['subnet']) + "\n" + response.text)
```

if status == 601: when:

Section:

Explanation:

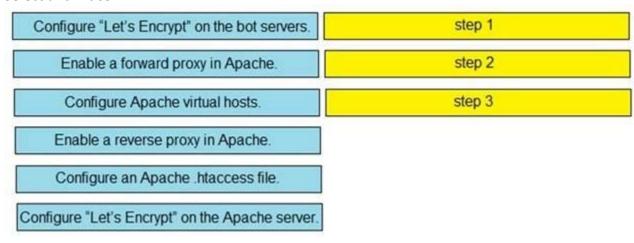
QUESTION 13



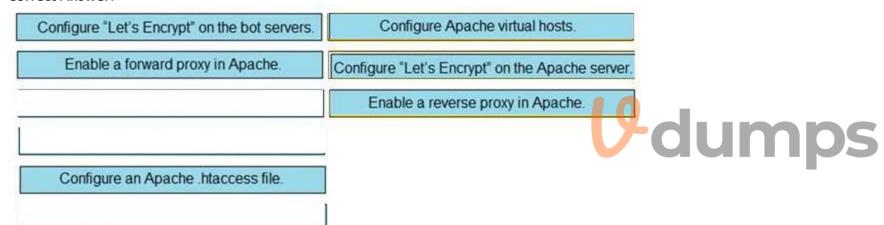
DRAG DROP

An engineer must access multiple bots that are running in an internal infrastructure. A different HTTPS URL is required for each bot. The infrastructure has just one public IP address and a Linux server with Apache installed. Drag and drop the actions from the left into the order of steps on the right to enable access to the bots inside. Not all options are used.

Select and Place:



Correct Answer:



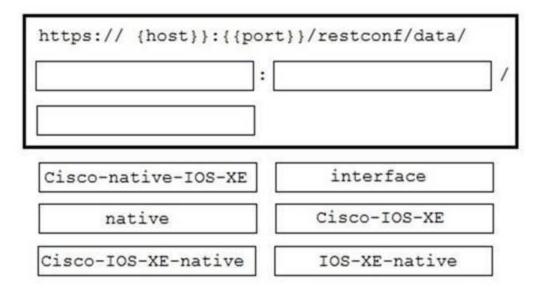
Section:

Explanation:

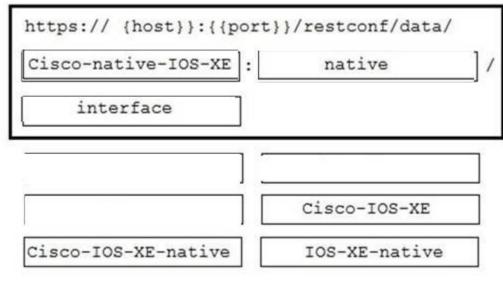
QUESTION 14

DRAG DROP

A network engineer needs to retrieve interface data using the Cisco IOS XE YANG Model. Drag and drop the components from the bottom onto the box where the code is missing to complete the RESTCONF URI. Not all options are used.



Correct Answer:





Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html

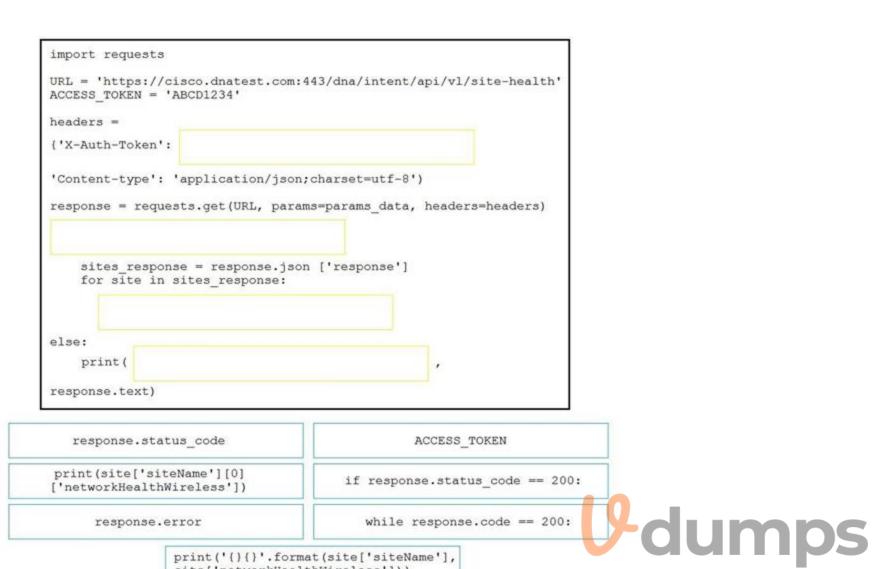
QUESTION 15

DRAG DROP





Refer to the exhibit. A developer is creating a Python script by using Cisco DNA Center APIs. Drag and drop the code from the bottom onto the box where the code is missing in the Python script to retrieve and display wireless health information for each site. Not all options are used.



print('{}{}'.format(site['siteName'], site['networkHealthWireless']))



response.error

['networkHealthWireless'])

dumps

Section:

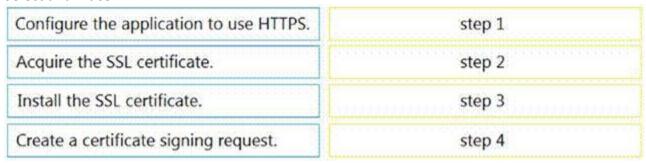
Explanation:

QUESTION 16

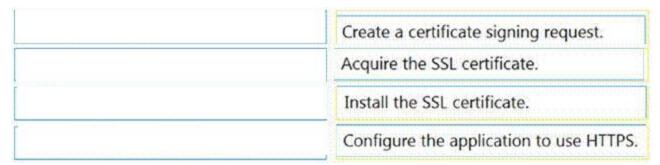
DRAG DROP

An engineer is developing a web-based application that will be used as a central repository for the HR department. The application needs to authenticate user access and encrypt communication. Drag and drop the steps from the left into the order on the right to install an application-specific SSL certificate.

Select and Place:



while response.code == 200:



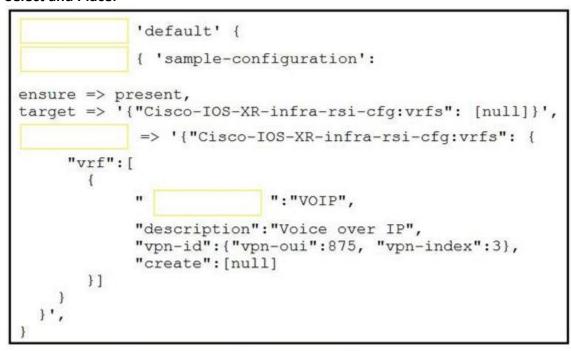
Explanation:

QUESTION 17

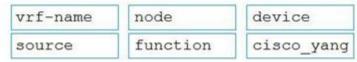
DRAG DROP

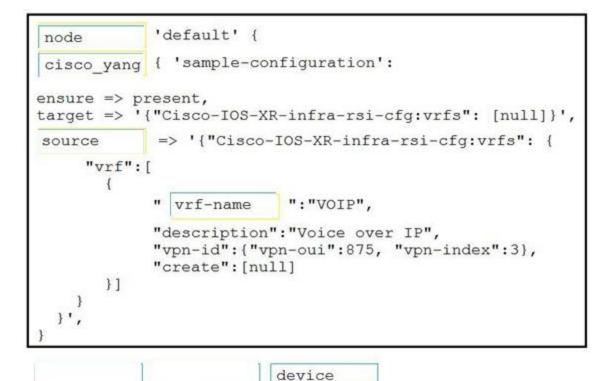
Drag and drop the code from the bottom of the code snippet to the blanks in the code to construct a Puppet manifest that configures a VRF instance on a Cisco IOS XR device. Not all options are used.

Select and Place:









QUESTION 18

Explanation:

function

DRAG DROP

A developer is creating a Python script to catch errors using REST API calls and to aid in debugging. Drag and drop the code from the bottom onto the box where the code is missing to implement control flow for REST API errors. Not all options are used.

except requests.	as e:	
print ("Make sure print (str (e)) continue	e you are connected to Internet.")	
except requests.	as e:	
<pre>print("Timeout E print (str (e)) continue</pre>	rror")	
print("General E print (str (e)) continue	as e:	
except ::		
ConnectionError	RequestException	1
Timeout	KeyboardInterrupt	
Request	Error VCE Plus	5 om

```
res = requests.get (address, timeout=30)
except requests. ConnectionError
          print ("Make sure you are connected to Internet.")
         print (str (e))
         continue
except requests.
                     Timeout
                                       as e:
          print ("Timeout Error")
          print (str (e))
          continue
except requests. RequestException
                                        as e:
          print ("General Error") .com
          print (str (e))
          continue
except KeyboardInterrupt :
   print ("Program closed")
             Request
                                     Error
```

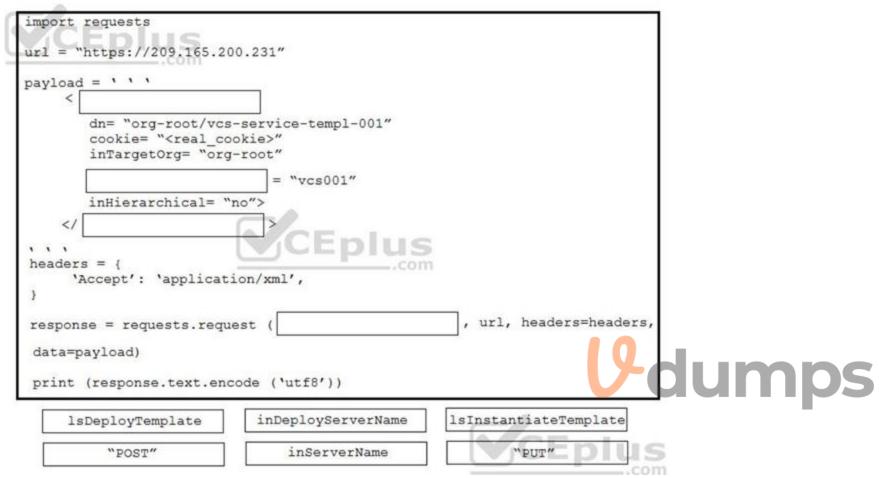
Explanation:

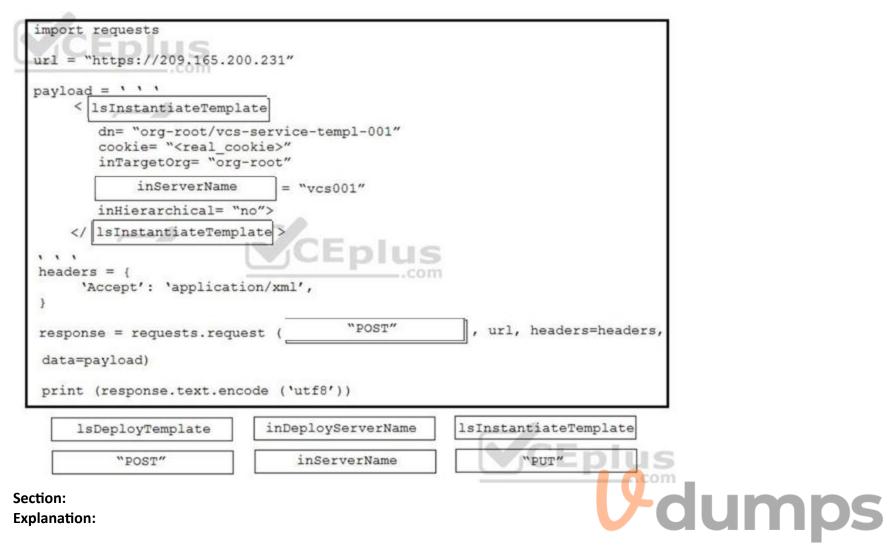
QUESTION 19

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to provision a new Cisco Unified Computing System server by using the UCS XML API. Options may be used more than once. Not all options are used.

Select and Place:





Explanation:

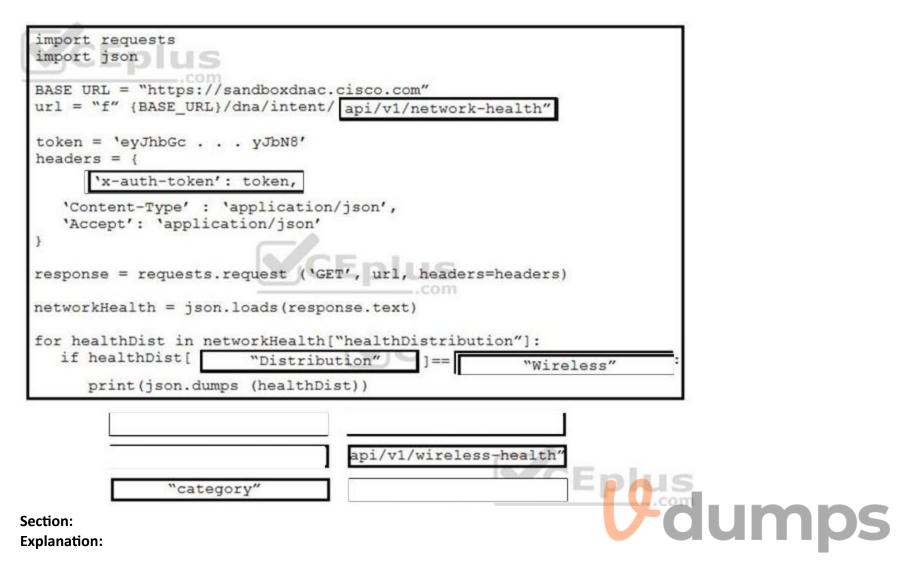
QUESTION 20

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to retrieve and display wireless network health information. The wireless network devices are being managed by Cisco DNA Center and are compatible with

REST API. Not all options are used.

```
import requests
import json
BASE URL = "https://sandboxdnac.cisco.com"
url = "f" {BASE_URL}/dna/intent/
token = 'eyJhbGc . . . yJbN8'
headers = {
   'Content-Type' : 'application/json',
'Accept': 'application/json'
response = requests.request ('GET', url, headers=headers)
networkHealth = json.loads(response.text)
for healthDist in networkHealth["healthDistribution"]:
  if healthDist[
     print(json.dumps (healthDist))
        api/v1/network-health"
                                        "Wireless"
                                 api/v1/wireless-health
         'x-auth-token': token,
                                                        Edumps
              "category"
                                       "Distribution"
```



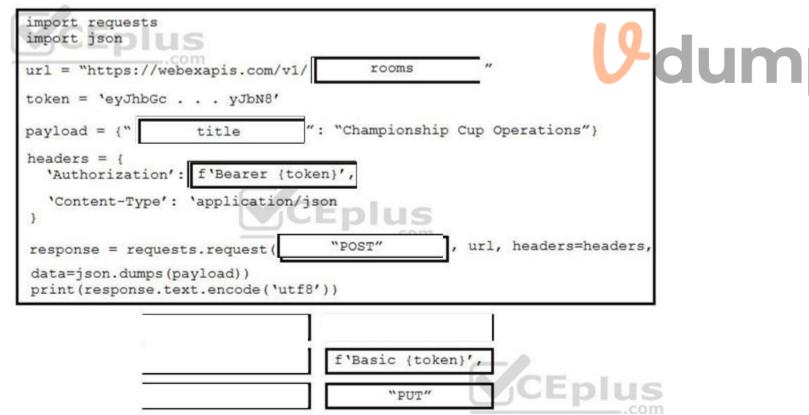
QUESTION 21

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to create a Webex space. Not all options are used.



Correct Answer:



Section:

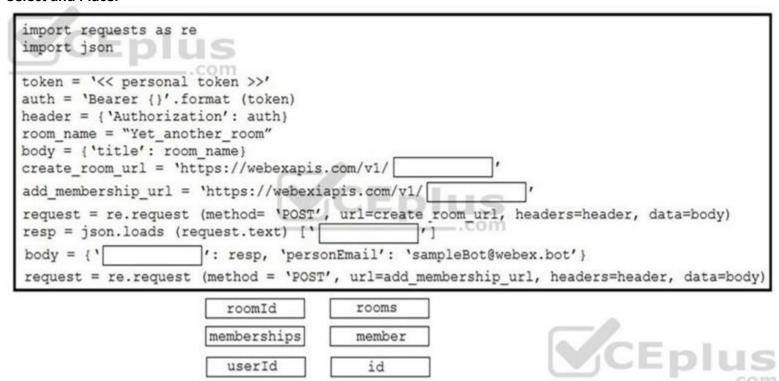
Explanation:

QUESTION 22

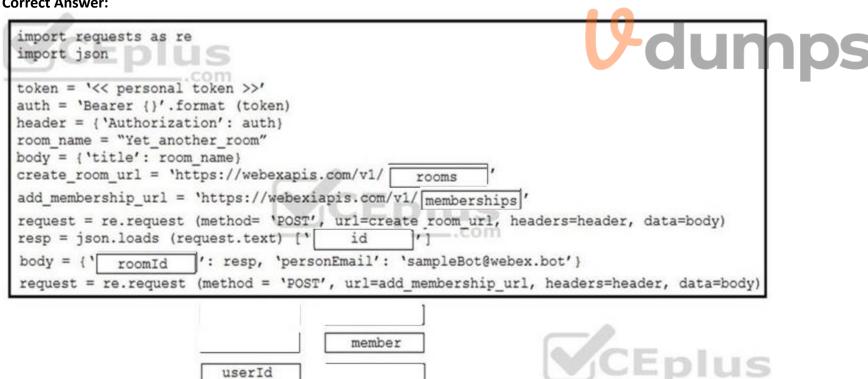
DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to create a new Cisco Webex space and attach a previously configured bot named 'sampleBot'. Not all options are used.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 23 DRAG DROP

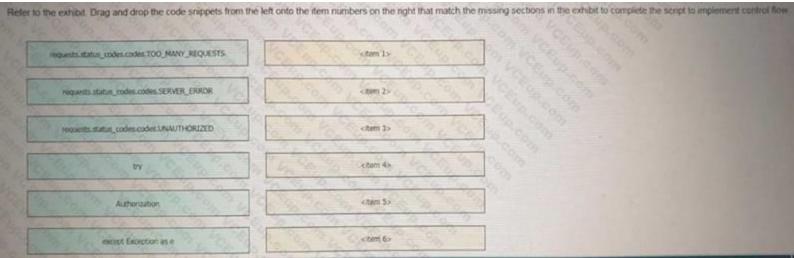
```
der get daae devices():

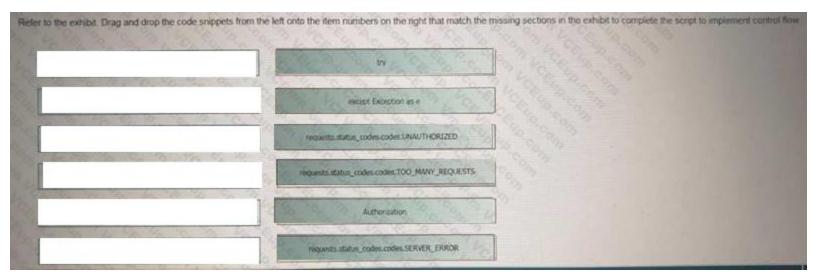
(Item 1%;

(Item 1%
```

Refer to the exhibit Drag and drop the code snippets from the left onto the item numbers on the right that match the missing sections in the exhibit to complete the script to implement control flow.

Select and Place:



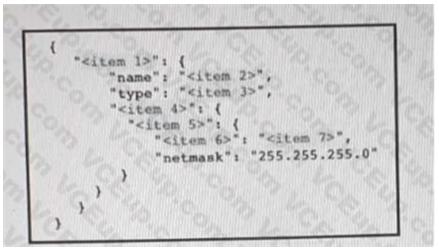


Explanation:

QUESTION 24 DRAG DROP

```
YANG IP Management
2. IP Data Model
This document defines the YANG module "letf-ip", which augments the
"interface" lists defined in the "ietf-interfaces" module [RFC8343]
with IP-specific data nodes.
The data model has the following structure for IP data nodes per
interface, excluding the deprecated data nodes:
module: ietf-ip
augment /if:interfaces/if:interface:
   +--rw ipv41
       +--rw enabled?
                          boolean
       +--rw forwarding? | boolean
       +--rw mtu?
                          uint16
       +--rw address* [ip]
                                 inet:ipv4-address-no-zone
         +--rw ip
         +--rw (subnet)
             +--: (prefix-length)
              +--rw prefix-length? uint8
            +--: (netmask)
               +--rw netmask?
                                      yang:dotted-quad
                       {ipv4-non-contiguous-netmasks}?
          +--ro origin?
                                ip-address-origin
       +--rw neighbor* [ip]
         +--rw ip
                                     inet:ipv4-address-no-zone
                                     yang:phys-address
          +--rw link-layer-address
          +--ro origin?
                                     neighbor-origin
   +--rw ipv61
      +--rw enabled?
                                         boolean
       +--rw forwarding?
                                         boolean
                                         uint32
       +--rw mtu?
       +--rw address* [ip]
                                 inet:ipv6-address-no-zone
         +--rw ip
         +--rw prefix-length
                                uint8
         +--ro origin?
                                ip-address-origin
         +--ro status?
                                enumeration
         -rw neighbor* [ip]
                                      inet:ipv6-address-no-zone
         +--rw ip
         +--rw link-layer-address
                                     yang:phys-address
         +--ro origin?
                                     neighbor-origin
         +--ro is-router?
                                     empty
                                     enumeration
         +--ro state?
       +--rw dup-addr-detect-transmits? uint32
```





Refer to the exhibit above and click on the resource tabs in the top left corner to view an IETF TANG MODEL and a Python file that changes the configuration via RESTCONF. Drag and drop the code snippets from the left onto the item numbers on the right that match the missing sections in the exhibit to complete the JSON file that changes configuration of interface GigabitEthernet1 to have an IPv4 configuration of 10.10.0.1/24. Not all options are used.

Select and Place:



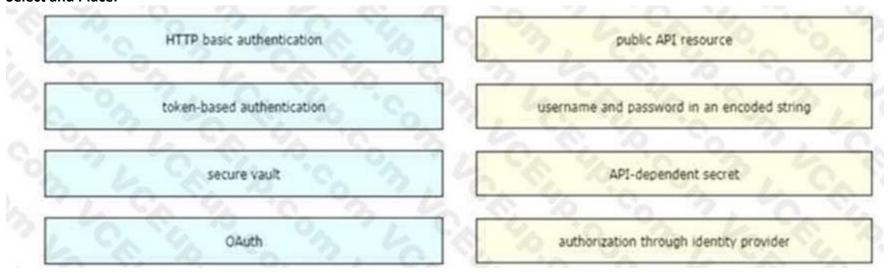


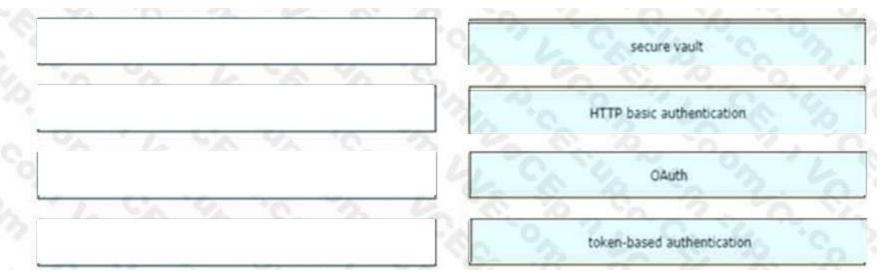
QUESTION 25

DRAG DROP

Drag and drop the REST API authentication method from the left to the description on the right

Select and Place:





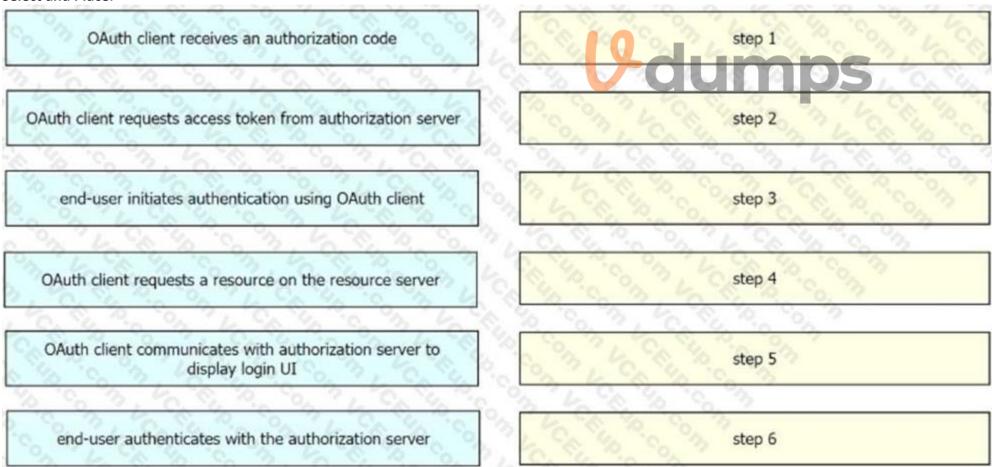
Explanation:

QUESTION 26

DRAG DROP

Drag and drop the steps on the left into the order on the right for an end-user to access an OAuth2 protected resource using the Authorization Code Grant1 flow.

Select and Place:

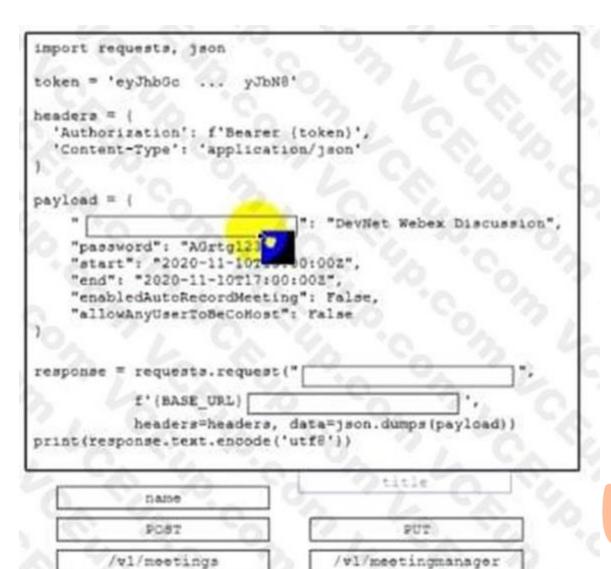


	end-user initiates authentication using OAuth client
3, 6, 6, 6, 6, 6, 7, 6,	OAuth client communicates with authorization server to display login UI
8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	end-user authenticates with the authorization server
- On 1 L Co 15 - Co 15 - 1	OAuth client receives an authorization code
	OAuth client requests access token from authorization server
	OAuth client requests a resource on the resource server
Section: Explanation:	U dumps

QUESTION 27

DRAG DROP

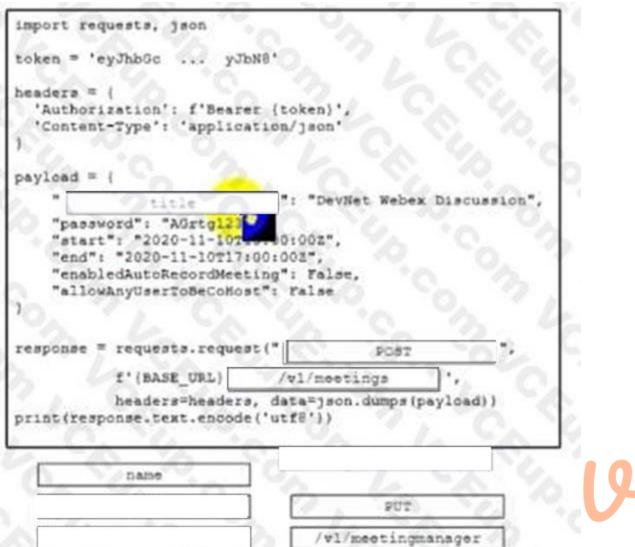
Drag and drop the code snippets from the bottom onto.the boxes where the code is missing to create a Cisco Webex meeting by using the Webex API. Not all options are used.



Udumps

Correct Answer:

/vl/meetings



Udumps

Section:

Explanation:

QUESTION 28

DRAG DROP

Drag and drop the code from the bottom onto the where the code is missing to create a host object by using the Cisco Firepower Device Manager API. Not all options are used.

Select and Place:

mport requests	2 L Ch ' L " C ' C ' C ' C
ASE_URL = 'https://ftd.example.c	om/api/fdm/latest
oken = 'eyJhbGc N. yJbN8'	
<pre>ayload = { "name": "developer.cisco.com" "subType": "HOST", "value": " "type":</pre>	
0 0 0	
'Authorization':	
'Content-Type': 'application/js	on Control of the Con
5. " 1. " C. " 4. " <u>* </u>	2 L 2 2 2 3 6
esponse = requests.request(, url, headers=headers,
iata=json.dumps(payload)) print(response.text.encode('utf8'	
f'Basic (token)',	f'Bearer (token)',
f'(EASE_URL)/object/networks)	f'{BASE_URL}/object/hosts/{ID}'
drawer / - 1	"networkobject"
"POST"	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
"GET"	70 °C 70 °C 70 °C
"GET"	19-4
rect Answer:	L9-di
rect Answer:	L9-di
"GET" rect Answer: import requests import json BASE URL = 'https://ftd.example.c	om/api/fdm/latest!
rect Answer: import requests import json BASE URL = 'https://ftd.example.c	om/api/fdm/latest!

Section:

Explanation:

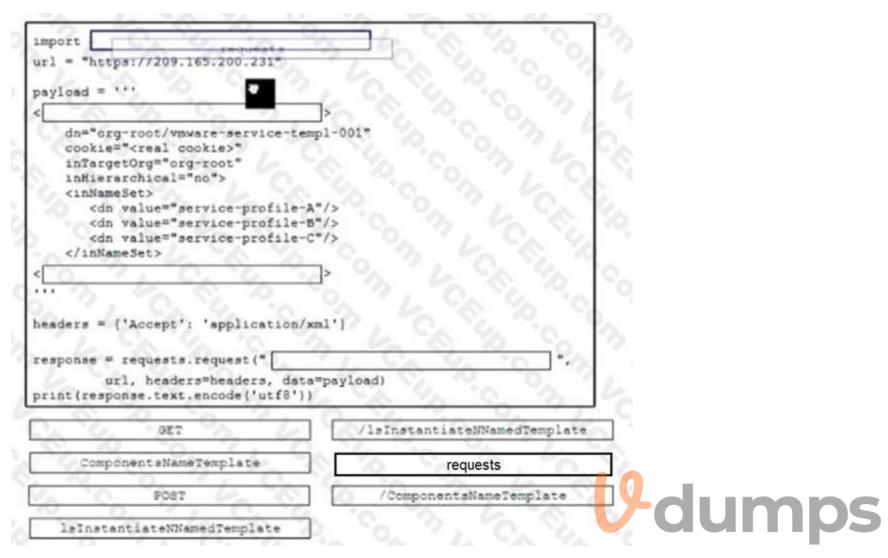
```
import requests
import joon
BASE_URL = 'https://ftd.example.com/api/fdm/latest'
url = f'(BASE_URL)/object/networks'
token = 'eyJhbGc ... yJbN8'
payload = {
    "name": "developer.cisco.com", "description": "DevNet host"
"subType": "HOST", "value": "209.165.200.230",
                     "networkobject"
headers = {
                            f'Basic (token)',
  'Authorization':
  'Content-Type': 'application/jeon
                                              "POST"
response = requests.request
                                                                          headers=headers,
data=json.dumps(payload))
print(response.text.encode('utf8'))
                                             f'Bearer (token)',
                                       f'(BASE_URL)/object/hosts/(ID)
              "GET"
```

QUESTION 29

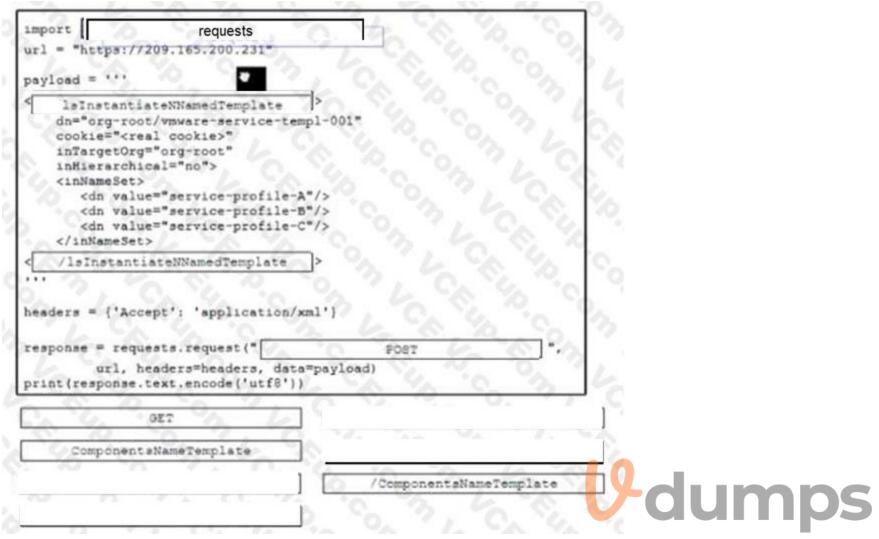
DRAG DROP

Drag and drop the code snippets from the bottom onto the boxes where the code is missing to deploy three Cisco UCS servers each from a different template Not all options ate used.

Select and Place:



Correct Answer:



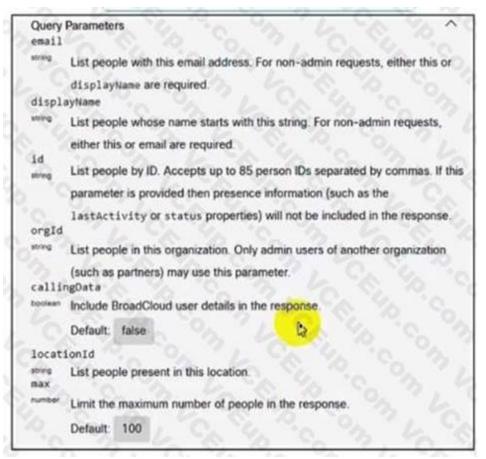
Section:

Explanation:

QUESTION 30

DRAG DROP

Refer to the exhibit.



Drag and drop the code snippets from the bottom onto the boxes where the code is missing to retrieve a list of all the members of a specific Cisco Webex organization Not at options are used.

U-dumps

Select and Place:

print("Results:", json.dumps(response.json(),indent=4))

"Authorization": "Sasic DlkZdoYQtOTcxyOiMzcxNDM12TR-4851-9309"

print("Paginated results detected!")

print("No pagination!")

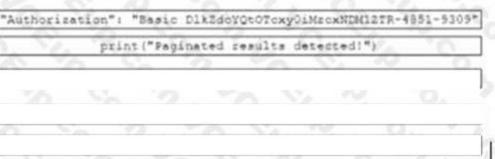
"orgId": "Y21zsdofzvl3VzLRFQU0vZDk3OYasdi0xMMU5LtsGRkOhm",

"Authorization": "Searer DlkZdoYQtOTcxyOiMzcxNDM13TR-4851-



Correct Answer:







Section:

Explanation:

QUESTION 31

DRAG DROP

Drag and drop the steps from the left into the sequence on the fight to implement an OAuth2 threelegged authorization code flow grant type in an application Not all options are used.

Select and Place:

Using the user credentials, the application requests an authorization token.	step 1
0. 0 0 6 0	0 3 50 0
ne user is directed to a login page where they supply credentials and authorize consent.	step 2
Using the authorization token, protected API calls can then be made.	step 3
Using the code generated during login, protected API calls can then be made.	14 Ch 16 Co 37 16
Using the code generated during login, the application requests an authorization.	Carrier Carrier
rect Answer:	1 N. N. O. Y. C. Y.
rect Answer:	The user is directed to a login page where they supply credentials and authorize consent.
rect Answer:	The user is directed to a login page where they supply credentials and authorize consent.
rect Answer:	The user is directed to a login page where they supply credentials and authorize consent. Using the user credentials, the application requests an authorization token.
rect Answer:	Using the user credentials, the application requests an
V. 10 2 6 7	Using the user credentials, the application requests an
9. 10 2 6 6 7	Using the user credentials, the application requests an authorization token. Using the authorization token, protected API calls can then be
Using the code generated during login, protected API calls can then be made.	Using the user credentials, the application requests an authorization token. Using the authorization token, protected API calls can then be

Section:

Explanation:

QUESTION 32

DRAG DROP

A developer is creating a Python script to analyze errors during REST API call operations. The script will be used with Cisco solution and devices. Drag and drop the code from the bottom to the box where the code is missing to implement control flow for handling unrecoverable REST API calls. Not all options are used.

Select and Place:



response.status == 403
response.status_code == 403
sys.exit(1)



Correct Answer:



Section:

Explanation:

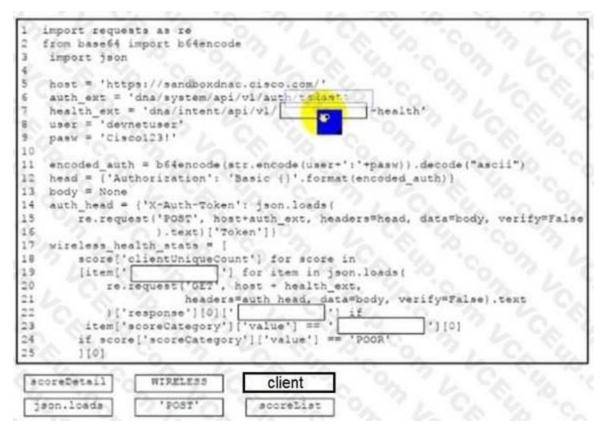
QUESTION 33

DRAG DROP

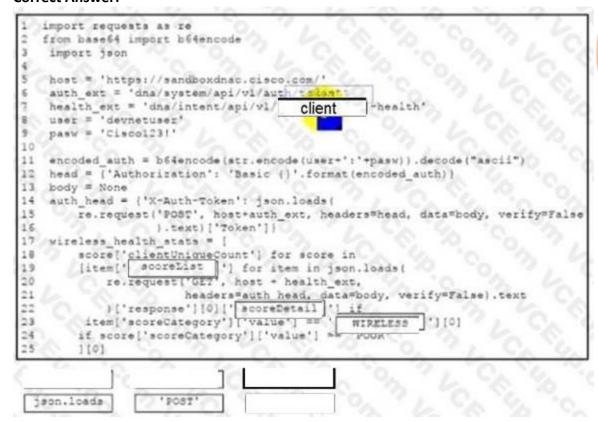
A Python script must query the Cisco DNA center API for the number of unique wireless clients that are exhibiting poor health behavior. Drag and drop the code from the bottom onto the box where the code is missing to complete the script

Not all options are used.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 34

250 EST 2020

User report that they can no longer process transactions with the online ordering application, and the logging dashboard is displaying these messages.

Fri Jan 10 19:37:31.123 EST 2020 [FRONTEND] INFO: Incoming request to add item to cart from user 45834534858 Fri Jan 10 19:37:31 247 EST 2020 [BACKEND] INFO: Attempting to add item to cart Fri Jan 10 19:37:31

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[BACKEND] ERROR: Failed to add item: MYSQLDB ERROR:

Connection refused

What is causing the problem seen in these log messages?

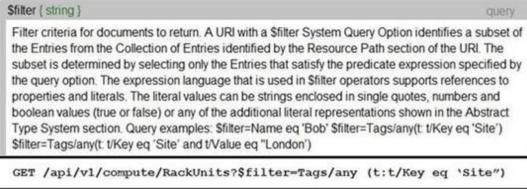
- A. The database server container has crashed.
- B. The backend process is overwhelmed with too many transactions.
- C. The backend is not authorized to commit to the database.
- D. The user is not authorized to add the item to their cart.

Correct Answer: A

Section:

QUESTION 35

Refer to the exhibit.



An Intersight API is being used to query RackUnit resources that have a tag keyword set to "Site".

What is the expected output of this command?

- A. list of all resources that have a tag with the keyword "Site"
- B. error message because the Value field was not specified
- C. error message because the tag filter should be lowercase
- D. list of all sites that contain RackUnit tagged compute resources

Correct Answer: A

Section:

QUESTION 36

A user is receiving a 429 Too Many Requests error. Which scheme is the server employing that causes this error?

- A. rate limiting
- B. time outs
- C. caching
- D. redirection

Correct Answer: A

Section:

QUESTION 37

Meraki Dashboard API Response

```
Response Status Code 200
Response Link Header
<a href="https://n6.meraki.com/api/vO/organizations/681155/devices">https://n6.meraki.com/api/vO/organizations/681155/devices</a> ?perPage-3&startingAfter-0000-0000-0000>; rel-first,
<a href="https://n6.meraki.com/api/v0/organizations/681155/devices?perPage-3&startingAfter-Q2EK-3UBE-RRUY">https://n6.meraki.com/api/v0/organizations/681155/devices?perPage-3&startingAfter-Q2EK-3UBE-RRUY</a>; rel-next,
{' name": \\II '
"serial": "Q2CV-V49B -RCMZ",
"mac": "0c:8d:db:95:aa:39",
"networkid": "L-566327653141846927",
"model11: "MV71",
"address": "430 E Cactus Ave .\nLas Vegas, NV 89183",
"lat": 36.00017,
"lng": -115.15302,
"notes": "",
"tagsn: "",,
"lanip: "192.168.0.25",
'configurationUpdatedAt": "2019-08-08T02:15:36Z", 'firmware11: "ca.rnera-3-3011
"ncune": "Alex's MR84 - 1"1
"serial": "Q2EK-2LYB-PCZP",
"mac": 'eO: 55:3d:10:56:8a", "networkid": "L 566327653141846927",
"model": "MR84",
                                                                             9dumps
"address": "11,
"lat": 39.9482993357826,
"lng": -82.9895675461739,
"notes": "",
"tags": ' ",
"lanip: null,
"configurationVpdatedAt": "2018-02-03Tll:02:37Z",
"firmware11: "Not running configured version"
"na.rne11: "Vegas Living Room MR84 11,
"serial": "Q2EK-3UBE-RRUY",
"mac": "e0:55:3d:10:5a:ca", "networkid": "L 566327653141846927" 1
"model": "MR84",
"address": "430 E Cactus Ave.\nLas vegas, NV 89183", "lat": 36.00015,
"lng": -115.15308,
"notes": ' ",
"tags": "11
1" lanip: "
192.168.0.20",
"configurationVpdatedAt": "2018-09-29Tl2:23:21Z",
' firmware": "Not running configured version"
Refer to the exhibit.
```

```
import request
import json
meraki api key = "<api key>"
"https://api.meraki.com/api/v0/organizations/12345567890/devices"
         "X-Cisco-Meraki-API-Key": meraki api key,
params = {
    "perPage": 3
res = requests.get(url, headers=headers, params=params)
formatted message = """
Meraki Dasboard API Response
 ........
Response Status Code : ()
Response Link Header : {}
Response Body
                : ()
""".format(res.status code, res.headers.get('Link'),
json.dumps(res.json(), indent=4))
print(formatted message)
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?perPage=</pre>
3&startingAfter=0000-0000-0000>; rel=first,
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?perPage=</pre>
3&startingAfter=Q2EK-3UBE-RRUY>; rel=next,
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?</pre>
endingBefore=zzzz-zzzz-zzzz&perPage=3>; rel=last
```

Which line of code must be added to this code snippet to allow an application to pull the next set of paginated items?

- A. requests.get(url, links=['next']['url'])
- B. requests.get(url, headers=links['next']['url'])
- C. requests.get(res.links['next']['url'], headers=headers)
- D. requests.get(res.headers.get('Link")['next']['url'], headers=headers)



Correct Answer: C

Section:

QUESTION 38

An Etag header is included in the HTTP response for an API resource. What are two benefits of using the value of the Etag for future interactions involving the same API resource? (Choose two.)

- A. caching and optimization of response payloads
- B. creating conditional requests
- C. categorizing and comparing this API resource with others
- D. checking the integrity of the resource
- E. requesting the list of operations authorized for this resource

Correct Answer: A, B

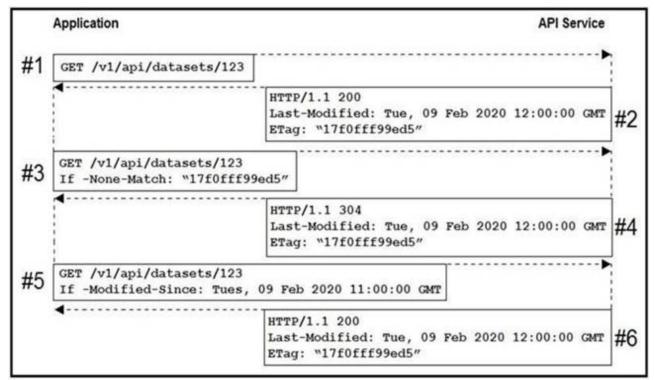
Section:

Explanation:

- The ETag HTTP response header is an identifier for a specific version of a resource. It lets caches bemore efficient and save bandwidth, as a web server does not need to resend a full response if the content has not changed. Additionally, etags help prevent simultaneous updates of a resource from overwriting each other ("mid-air collisions").
- The ETag or entity tag is part of HTTP, the protocol for the World Wide Web. It is one of severalmechanisms that HTTP provides for Web cache validation, which allows a client to make conditional requests.

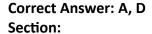
QUESTION 39

Refer to the exhibit.



An application uses an API to periodically sync a large data set. Based on the HTTP messagesequence provided, which statements are true about the caching behavior seen in the scenario? (Choose two.)

- A. The full dataset was transmitted to the client twice.
- B. The dataset changed sometime between message #4 and #5.
- C. A partial dataset was transmitted to the client in message #4.
- D. The dataset did not change during the scenario.
- E. Messages #3 and #5 are equivalent.



QUESTION 40

Which RFC5988 (Web Linking) relation type is used in the Link header to control pagination in APIs?

- A. rel="index"
- B. rel="page"
- C. rel="next"
- D. rel="section"

Correct Answer: C

Section:

QUESTION 41

A client is written that uses a REST API to interact with a server. Using HTTPS as the transport, anHTTP request is sent and received an HTTP response. The response contains the HTTP responsestatus code: 503 Service Unavailable.

Which action is the appropriate response?

A. Add an Authorization header that supplies appropriate credentials and sends the updated request.



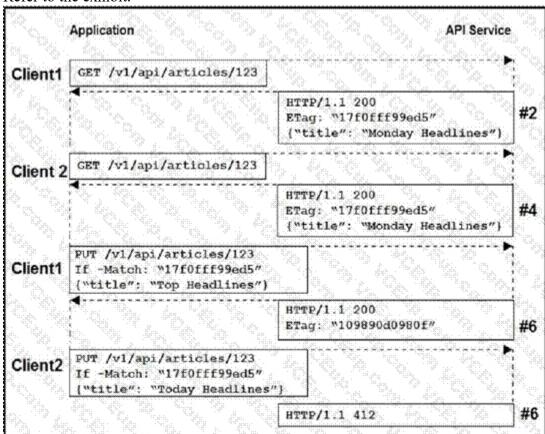
- B. Resend the request using HTTP as the transport instead of HTTPS.
- C. Add an Accept header that indicates the content types that the client understands and send the updated request.
- D. Look for a Retry-After header in the response and resend the request after the amount of time indicated.

Correct Answer: D

Section:

QUESTION 42

Refer to the exhibit.





Two editors are concurrently updating an article's headline from their mobile devices. What results from this scenario based on this REST API sequence?

- A. The article is marked as "Conflicted"
- B. The article headline is "Monday Headlines"
- C. The article headline is "Today Headlines"
- D. The article headline is "Top Headlines"

Correct Answer: D

Section:

QUESTION 43

Refer to the exhibit.

```
response = requests.get(url)
if response.status_code != 200:
    error_message = "Unexpected HTTP Response code: {}".format(response.status_code)
    raise Exception(error_message)
data = response.json()
```

This snippet of a script has recently started exiting abnormally with an exception stating "Unexpected HTTP Response code: 429".

Which solution handles rate limiting by the remote API?

```
A.
    response = requests.get(url)
   if response.status code == 429:
        backoff seconds = int(response.headers['Retry-After'])
        sleep (backoff seconds)
    elif response.status code != 200:
        error message = "Unexpected HTTP Response code: {}".format(response.status code)
        raise Exception (error message)
    data = response.json()
    response = requests.get(url)
    if response.status code != 200 and response.status code != 429:
         error message = "Unexpected HTTP Response code: {}".format(response.status code)
         raise Exception (error message)
    data = response.json()
    response = requests.get(url)
   if response.status code != 200 and response.status code != 429:
        backoff seconds = int(response.headers['Retry-After'])
        sleep (backoff seconds)
        error message = "Unexpected HTTP Response code: {}".format(response.status code)
        raise Exception (error message)
    data = response.json()
D.
    response = requests.get(url)
    if response.status code == 429:
        backoff seconds = int(response.headers['Retry-After'])
         sleep (backoff seconds)
        response = requests.get(url)
    elif response.status code != 200:
        error message = "Unexpected HTTP Response code: {}".format(response.status code)
        raise Exception (error message)
    data = response.json()
```

Correct Answer: D

QUESTION 44

Section:

An application uses OAuth to get access to several API resources on behalf of an end user. What are two valid parameters to send to the authorization server as part of the first step of an authorization code grant flow? (Choose two.)

- A. URI to which the authorization server will send the user-agent back when access is granted or denied
- B. list of the API resources that the application is requesting to access
- C. secret that was generated by the authorization server when the application registered as an OAuth integration
- D. list of scopes that correspond to the API resources to which the application is requesting to access
- E. name of the application under which the application registered as an OAuth integration

Correct Answer: A, C

Section:

OUESTION 45

Refer to the exhibit.

Responding to Events

After creating a bot, you can use its access token with the Webex REST APIs to perform actions as the bot, such as sending a message with an interactive card to someone. To respond to events within Webex Teams, such as someone sending your bot a message or adding it to a group space, you'll need to configure webhooks. Webhooks will let you know when an activity has occurred so you can take action. Check out the Webhooks Guide for more information about configuring webhooks.

With cards, you can give your users even more ways to interact with your bot or service, right in the Webex Teams clients. See the Cards Guide for more information.

Differences Between Bots and People

One key difference between Webex Teams Bots and regular users is that, in group rooms, bots **only have access to messages in which they are mentioned**. This means that <code>messages:created</code> webhooks only fire when the bot is mentioned in a room.

Also, listing messages requires that you specify a special ?mentionedPeople=me query parameter.

GET /messages?mentionedPeople=me&roomId=SOME_INTERESTING_ROOM Authorization: Bearer THE_BOTS_ACCESS_TOKEN

Bot Frameworks & Tools

There are several bot frameworks that can greatly simplify the bot development process by abstracting away the low-level communications with the Webex REST API, such as creating and sending API requests and configuring webhooks. Instead, you can focus on the building the interaction and business logic of your bot.

Flint is an open source bot framework with support for regex pattern matching for messages and more.



Which set of API requests must be executed by a Webex Teams bot after receiving a webhook callback to process messages in a room and reply with a new message back to the same room?

O

```
GET/message&roomId=<ROOM_ID>
POST/messages
{ "roomId :"<ROOM_ID>", "text" :<MESSAGE>"}
GET/messages&mentionedPeople=me&roomId=<ROOM_ID>
PUT/messages
{ "roomld:"<ROOM_ID>", "text":<MESSAGE>"}
GET/message&roomld=<ROOM_ID>
PUT/messages
{ "roomId:"<ROOM_ID>", "text":<MESSAGE>"
GET/messages&mentionedPeople=me&roomId=<ROOM_ID>
```

POST/messages

{ "roomId:"<ROOM_ID>", "text":<MESSAGE>"}

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

Correct Answer: D

Section:

QUESTION 46

Which snippet presents the correct API call to configure, secure, and enable an SSID using the Meraki API?

```
A.
    curl -X PUT \
    --url 'https://api.meraki.com/api/v0/networks/:networkld/ssids/2' \
    -H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
     -H 'Accept: application/json' \
     -H 'Content-type: application/json' \
     --data-raw '{
     "name": "My SSID",
     "enabled": false,
     "authMode": "psk",
     "encryptionMode": "wpa",
     "psk": "meraki123",
     "wpaEncryptionMode": "WPA1 and WPA2"
В.
     curl -X PUT \
     --url 'https://api.meraki.com/api/v0/networks/:networkld/ssids/2' \
     -H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
     -H 'Accept: application/json' \
     -H 'Content-type: application/json' \
     --data-raw '{
     "name": "My SSID",
     "enabled": true,
     "authMode": "psk",
     "encryptionMode": "wpa",
     "psk": "meraki123",
     "wpaEncryptionMode": "WPA1 and WPA2"
     curl -X PUT \
     --url 'https://api.meraki.com/api/v0/networks/:networkld/ssids/2' \
     -H 'X-Cisco-Meraki-API-Key:
     15da0c6ffff295f16267f88f98694cf29a86ed87' \
     -H 'Accept: application/json' \
     -H 'Content-type: application/json' \
     --data-raw '{
     "enabled": true,
     "useVlanTagging": true
D.
    curl -X PUT \
    --url 'https://api.meraki.com/api/v0/networks/:networkld/ssids/2' \
    -H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
    -H 'Accept: application/json' \
    -H 'Content-type: application/json'\
     --data-raw '{
    "name": "My SSID",
    "enabled": true,
```



Correct Answer: B

Section:

QUESTION 47

FILL BLANK

Fill in the blanks to complete the Python script to enable the SSID with a name of "371767916" in the network resource "11111111" using the Meraki Dashboard API.

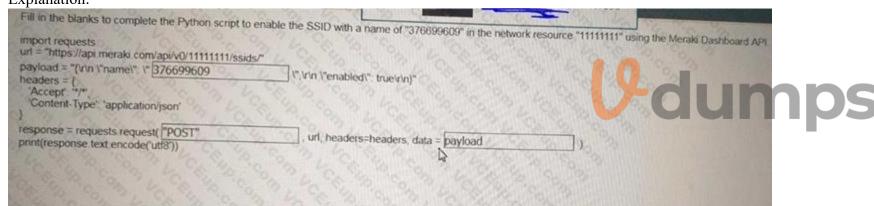
A.

Correct Answer: A

Section:

Explanation:

Answer: A Explanation:



- 1. 371767916
- 2. 'PUT'
- 3. payload

QUESTION 48

The UCS Python SDK includes modules for Service Profile template creation. Which two UCS Service Profile template types are supported? (Choose two.)

- A. initial-template
- B. updating-template
- C. abstract-template
- D. attached-template
- E. base-template

Correct Answer: A, B

Section:

QUESTION 49

A container running a Python script is failing when it reaches the integration testing phase of the CI/CD process. The code has been reviewed thoroughly and the build process works on this container and all other containers

pass unit and integration testing. What should be verified to resolve the issue?

- A. that the correct port is exposed in the Dockerfile
- B. that the necessary modules and packages are installed on build
- C. that the script is running from the right directory
- D. that the Python version of the container image is correct

Correct Answer: A

Section:

QUESTION 50

Click on the GET Resource button above to view resources that will help with this question.





"And" Operator

The and operator returns true if both the left and right operands evaluate to true, otherwise it returns false.

Example: Query RackUnit resources where the Model property is equal to "UCSC-C240- M5SN" and thy server has more than 64GB of memory:

 $\begin{tabular}{ll} \tt GET /api/v1/compute/RackUnits?\$filter=Model \ eq \ `UCSC-C240-M5SN' \ and \ AvailableMemory \ gtnown \ approx \ a$

"Or" Operator

The or operator returns true if either the left or right operand evaluate to true, otherwise it returns false.

Example: Query RackUnit resources where the Model property is equal to 'UCSC-C240-MSSN' or the Model property is equal to 'UCSC-C240-MSSN'. Use the Select keyword to reduce the size of the output JSON document.

"Not" Operator

The not operator returns true if the operand returns false, otherwise it returns false.

Example: Query RackUnit resources where the model property is not ('HX220C-M5SX' or 'HX220C-M5S'). The example shows how grouping parenthesis can be used to set the operator precedence.

GET /api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&top=10&\$filter=not(Model eq
'HX220C-M5SX' or Model eq 'HX220C-M5S')

"In" Operator

The **in** operator returns true if the left operand is equal to one of the values specified in the right operand, otherwise it returns false. The **in** operator accepts numeric and string values.

Values must be specified as a comma-separated list enclosed in parenthesis.

Example: Query RackUnit resources where the Model is either "HX220C-M5SX" or "UCSC-C240-M5SN".

GET /api/v1/compute/RackUnits?\$filter~Model in ('HX220C-M5SX','UCSC-C240-M5SN')







An engineer is managing a DC with 6000 Cisco UCS servers installed and running. The engineer has been asked to identify all resources where the model is in the UCSB family and the available memory is less than or equal to 5 GB.

Which REST API call accomplishes this task?

- A. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=not(Model eq 'UCSC') and AvailableMemory le 5000
- B. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=Model eq 'UCSB' and AvailableMemory lt 5000
- C. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=contains(Model, UCSB') and AvailableMemory lt 5000
- D. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=contains(Model, UCSB') and AvailableMemory le 5000

Correct Answer: D

Section:

Explanation:

QUESTION 51

AppGigabitEthernet interface is used as data port for a container on a Cisco Catalyst 9000 Series Switch. Which two interface configuration options should be used? (Choose two.)

- A. trunk interface
- B. bridged virtual interface
- C. SPAN port

D. management interract	D.	management	interface
-------------------------	----	------------	-----------

E. subinterface

Correct Answer: A, C

Section:

QUESTION 52

Which two types of storage are supported for app hosting on a Cisco Catalyst 9000 Series Switch? (Choose two.)

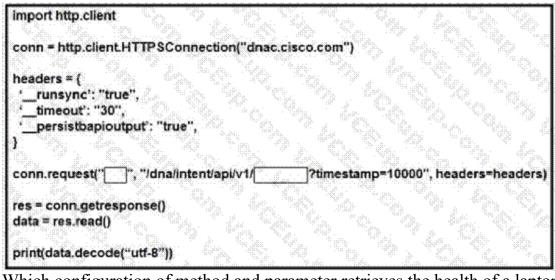
- A. external USB storage
- B. internal SSD
- c. CD-ROM
- D. SD-card
- E. bootflash

Correct Answer: A, B

Section:

QUESTION 53

Refer to the exhibit.





Which configuration of method and parameter retrieves the health of a laptop connected to the network from Cisco DNA Center?

- A. PUT; network-health;
- B. GET; client-health;
- C. GET; network-device;
- D. POST; network-device;

Correct Answer: B

Section:

Explanation:

Get Overall Client Health

GET

/dna /intent /api /v1 /client-health

Returns Overall Client Health information by Client type (Wired and Wireless) for any given point of time

https://developer.cisco.com/docs/dna-center/api/1-3-3-x/#!intent-api-v1-3-3-x

QUESTION 54

On a Cisco Catalyst 9300 Series Switch, the guest shell is being used to create a service within a container. Which change is needed to allow the service to have external access?

- A. Apply ip nat overload on VirtualPortGroup0.
- B. Apply ip nat inside on Interface VirtualPortGroup0.
- C. Apply ip nat outside on Interface VirtualPortGroup0.
- D. Apply ip nat inside on Interface GigabitEthernet1.

Correct Answer: B

Section:

QUESTION 55

Refer to the exhibit.

```
headers = (________)
try:
    response = requests.get("https://sandboxdnac.cisco.com/dna/intent/api/v1/wireless/profile",
    headers=headers, verify=False)
except requests/exceptions.RequestException as cerror:
    print("Error processing request", cerror)
    sys.exit(1)
```

Which code snippet is required in the headers to successfully authorize wireless information from Cisco DNA Center?

- A. $headers = \{ 'X-auth-token': 'fa8426a0-8eaf-4d22-8e13-7c1b16a9370c' \}$
- B. headers = {'Authorization':'Basic YWRtaW46R3JhcGV2aW5IMQ=='}
- C. headers = {'Authorization':'Bearer ASDNFALKJER23412RKDALSNKF"}
- D. headers = {'Content-type':'application/json}

Correct Answer: A

Section:

OUESTION 56

Into which two areas are AppDynamics APIs categorized? (Choose two.)

- A. application-centric
- B. analytics-events
- C. database-visibility
- D. platform-side
- E. agent-side

Correct Answer: D, E

Section:

QUESTION 57

Refer to the exhibit.

```
node 'default' {
 cisco yang netconf { 'my-config':
   target => '<vrfs xmlns='http://cisco.com/ns/yang/Cisco-IOS-XR-infra-rsi-cfg"/>'
   source => '<vrfs xmlns='http://cisco.com/ns/yang/Cisco-IOS-XR-infra-rsi-cfg">
                  <vrf-name>VOIP</vrf-name>
                  <create/>
                  <description>Voice over IP</description>
                  <vpn-id>
                    <vpn-oui>875</pn-oui>
                    <vpn-index>3</vpn-index>
                  </vpn-id>
                </vrf>
                <vrf>
                  <vrf-name>INTERNET</vrf-name>
                  <create/>
                  <description>Generic external traffic</description>
                  <vpn-id>
                    <vpn-oui>875</pn-oui>
                    <vpn-index>22</vpn-index>
               </vrf>
              </vrfs>
   force =>
```

This script uses ciscoyang to configure two VRF instances on a Cisco IOS-XR device using the Yang NETCONF type. Which two words are required to complete the script? (Choose two.)

- A. ensure
- B. commit
- C. false
- D. replace
- E. none

Correct Answer: C, D

Section:

QUESTION 58

There is a requirement to securely store unique usernames and passwords. Given a valid username, it is also required to validate that the password provided is correct. Which action accomplishes this task?

- A. Encrypt the username, hash the password, and store these values.
- B. Hash the username, hash the password, and store these values.
- C. Encrypt the username, encrypt the password, and store these values.
- D. Hash the username, encrypt the password, and store these values.

Correct Answer: A

Section:

QUESTION 59

Udumps

While developing an application following the 12-factor app methodology, which approach should be used in the application for logging?

- A. Write a log to a file in the application directory.
- B. Write a log to a file in /var/log.
- C. Write the logs buffered to stdout.
- D. Write the logs unbuffered to stdout.

Correct Answer: D

Section:

QUESTION 60

An application has initiated an OAuth authorization code grant flow to get access to an API resource on behalf of an end user. Which two parameters are specified in the HTTP request coming back to the application as the enduser grants access? (Choose two.)

- A. access token and a refresh token with respective expiration times to access the API resource
- B. access token and expiration time to access the API resource
- C. redirect URI a panel that shows the list of permissions to grant
- D. code that can be exchanged for an access token
- E. state can be used for correlation and security checks

Correct Answer: A, B

Section:

QUESTION 61
A web application is susceptible to cross-site scripting. Which two methods allow this issue to be mitigated? (Choose two.)

- A. Use only drop downs.
- B. Limit user input to acceptable characters.
- C. Encrypt user input on the client side.
- D. Use AES encryption to secure the script.
- E. Remove all HTML/XML tags from user input.

Correct Answer: B, E

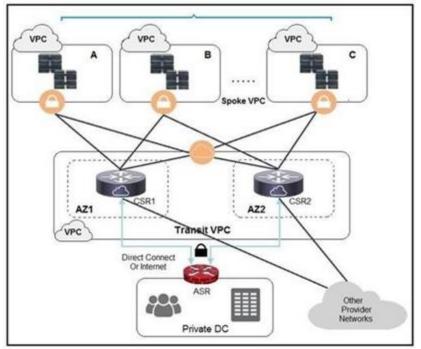
Section:

Explanation:

https://cheatsheetseries.owasp.org/cheatsheets/Cross Site Scripting Prevention Cheat Sheet.html

QUESTION 62

Refer to the exhibit.



A company has extended networking from the data center to the cloud through Transit VPC. Which two statements describe the benefits of this approach? (Choose two.)

- A. Dynamic routing combined with multi-AZ- deployment creates a robust network infrastructure.
- B. VPC virtual gateways provide highly available connections to virtual networks.
- C. Dedicated VPC simplifies load balancing by combining internal and external web services.
- D. VPC virtual gateways provide more secure connections to virtual networks.
- E. Dedicated VPC simplifies routing by not combining this service with other shared services.



Correct Answer: B, D

Section:

QUESTION 63

A developer has just completed the configuration of an API that connects sensitive internal systems. Based on company policies, the security of the data is a high priority. Which approach must be taken to secure API keys and passwords?

- A. Embed them directly in the code.
- B. Store them in a hidden file.
- C. Store them inside the source tree of the application.
- D. Change them periodically.

Correct Answer: D

Section:

QUESTION 64

Which two principles are included in the codebase tenet of the 12-factor app methodology? (Choose two.)

- A. An application is always tracked in a version control system.
- B. There are multiple codebases per application.

- C. The codebase is the same across all deploys.
- D. There can be a many-to-one correlation between codebase and application.
- E. It is only possible to have one application deployment per codebase.

Correct Answer: A, C

Section:

QUESTION 65

What is submitted when an SSL certificate is requested?

- A. PEM
- B. CRT
- c. DER
- D. CSR

Correct Answer: D

Section:

QUESTION 66

Which two actions must be taken when an observable microservice application is developed? (Choose two.)

- A. Know the state of a single instance of a single service.
- B. Place "try/except" statement in code.
- C. Place log statements in the code.
- D. Use distributed tracing techniques.
- E. Deploy microservice to multiple datacenters.

Correct Answer: C, D

Section:

QUESTION 67

Which two countermeasures help reduce the risk of playback attacks? (Choose two.)

- A. Store data in a NoSQL database.
- B. Implement message authentication (HMAC).
- C. Enable end-to-end encryption.
- D. Remove stack traces from errors.
- E. Use short-lived access tokens.

Correct Answer: B, E

Section:

QUESTION 68

Which type of file is created from issued intermediate, root, and primary certificates for SSL installation on a server?

A. DER



- B. CSR
- c. PEM
- D. CRT

Correct Answer: C

Section:

Explanation:

SSL .pem files (concatenated certificate container files), are frequently required for certificate installations when multiple certificates are being imported as one file.

QUESTION 69

Which two statements describe advantages of static code analysis over unit tests? (Choose two.)

- A. It checks for potential tainted data where input is not checked.
- B. It enforces proper coding standards and style.
- C. It performs a quick analysis of whether tests will pass or fail when run.
- D. It checks for race conditions in threaded applications.
- E. It estimates the performance of the code when run.

Correct Answer: A, B

Section:

QUESTION 70

Refer to the exhibit.

FROM alpine: 3.7

RUN apk add --no-cache bash



Which additional line results in the output of Test 1 upon execution of the docker run --rm devnet 1 command in a Dockerfile with this content?

- A. CMD ["/bin/echo", "Test"]
- B. RUN ["/bin/echo", "Test"]
- C. ENTRYPOINT ["/bin/echo", "Test"]
- D. CMD ["/bin/echo Test"]

Correct Answer: A

Section:

QUESTION 71

Which two techniques protect against injection attacks? (Choose two.)

- A. input validation
- B. trim whitespace
- C. limit text areas to 255 characters
- D. string escaping of user free text and data entry
- E. only use dropdown, checkbox, and radio button fields

Correct Answer: A, D Section:

QUESTION 72

Refer to the exhibit.

```
apiVersion: v1
clusters:
- cluster:
    certificate-authority: fake-ca-file
    server: https://1.2.3.4
 name: development
- cluster:
   insecure-skip-tls-verify: true
    server: https://5.6.7.8
 name: scratch
contexts:
- context:
    cluster: development
    namespace: frontend
    user: developer
  name: dev-frontend
- context:
    cluster: development
    namespace: storage
    user: developer
 name: dev-storage
- context:
    cluster: scratch
    namespace: default
   user: experimenter
 name: exp-scratch
current context: ""
kind: Config
preferences: {}
users:
- name: developer
 user:
    client-certificate: fake-cert-file
    client-key: fake-key-file
- name: experimenter
  user:
    password: some-password
    username: exp
```



A kubeconfig file to manage access to clusters is provided. How many clusters are defined and which of them are accessed using username/password authentication versus certificate?

- A. two clusters; scratch
- B. three clusters; scratch
- C. three clusters; development
- D. two clusters; development

Correct Answer: A

Section:

QUESTION 73

Which two strategies are used to protect personally identifiable information? (Choose two.)

A. Encrypt data in transit.

- B. Encrypt hash values of data.
- C. Encrypt data at rest.
- D. Only hash usernames and passwords for efficient lookup.
- E. Only encrypt usernames and passwords for efficient lookup.

Correct Answer: A, C

Section:

QUESTION 74

The response from a server includes the header ETag: W/"7eb8b94419e371767916ef13e0d6e63d". Which statement is true?

- A. The ETag has a Strong validator directive.
- B. The ETag has a Weak validator directive, which is an optional directive.
- C. The ETag has a Weak validator directive, which is a mandatory directive.
- D. The ETag has a Strong validator directive, which it is incorrectly formatted.

Correct Answer: B

Section:

Explanation:

https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/ETagThe ETag HTTP response header is an identifier for a specific version of a resource. It lets caches bemore efficient and save bandwidth, as a web server does not need to resend a full response if the content has not changed. Additionally, etags help prevent simultaneous updates of a resource from overwriting each other Syntax:

ETag: W/"<etag value>"

Directives:

W/ (Optional)

'W/' (case-sensitive) indicates that a weak validator is used. Weak etags are easy to generate, but are far less useful for comparisons.

"<etag value>"

Entity tag uniquely representing the requested resource. They are a string of ASCII characters placed between double quotes, like "675af34563dc-tr34"

QUESTION 75

Refer to the exhibit.

```
open_file = open("text_file.txt", "r")
read_file = open_file.read()
print(read_file)
```

A developer created the code, but it fails to execute. Which code snippet helps to identify the issue?

```
try:
     open file = open("text file.txt", "r")
    read file = open file.read()
    print(read file)
   except:
    print("File not there")
 try:
    print("File not there")
    open_file = open("text file.txt", "r")
     read file = open file.read()
    print(read file)
C.
  try:
     open file = open("text file.txt", "r")
     read file - open file.read()
    print(read file)
   except:
    print("File not there")
   catch:
    error (read file)
   open file = open("text file.txt", "r")
    read file = open file.read()
  try:
    print(read file)
  except:
    print("File not there")
```

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

Correct Answer: A

Section:

Explanation:

>>> read_file = open("me.txt", "r")
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
FileNotFoundError: [Errno 2] No such file or directory: 'me.txt'
>>>

QUESTION 76

Which HTTP status code indicates that a client application is experiencing intentional rate limiting bythe server?

- A. 202
- B. 401
- C. 429
- D. 503

Correct Answer: C

Section:

Explanation:



https://httpstatuses.com/429

QUESTION 77

Which database type should be used to store data received from model-driven telemetry?

- A. BigQuery database
- B. Time series database
- C. NoSQL database
- D. PostgreSQL database

Correct Answer: B

Section:

QUESTION 78

A heterogeneous network of vendors and device types needs automating for better efficiency and to enable future automated testing. The network consists of switches, routers, firewalls and load balancers from different vendors, however they all support the NETCONF/RESTCONF configuration standards and the YAML models with every feature the business requires. The business is looking for a buy versus build solution because they cannot dedicate engineering resources, and they need configuration diff and rollback functionality from day 1.

Which configuration management for automation tooling is needed for this solution?

- A. Ansible
- B. Ansible and Terraform
- c. NSO
- D. Terraform
- E. Ansible and NSO



Correct Answer: C

Section:

Explanation:

https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2020/pdf/DEVLIT-4019.pdf

QUESTION 79

An automated solution is needed to configure VMs in numerous cloud provider environments to connect the environments to an SDWAN. The SDWAN edge VM is provided as an image in each of the relevant clouds and can be given an identity and all required configuration via cloud-init without needing to log into the VM once online.

Which configuration management and/or automation tooling is needed for this solution?

- A. Ansible
- B. Ansible and Terraform
- c. NSO
- D. Terraform
- E. Ansible and NSO

Correct Answer: D

Section:

QUESTION 80

```
name: Configure Interfaces
with items: "{{interfaces}}"
netconf config:
<<: *host info
 menl: |
   <config>
       <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interefaces">
        <interface>
           <name>((item.interface_type)){(item.interface_id)}</name>
           <description>({item.description})</description>
           <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmaodC/type
            <enabled>true</enabled>
           <ipv4 xmlns="urn:letf:params:xml:ns:yang:letf-ip">
                <ip>{item.ip_address}}</ip>
                <netnask>((item.subnet mask))</pernask>
             </address>
        </interface>
       </interfaces>
   </config>
```

The Ansible playbook is using the netconf_module to configure an interface using a YANG model. As part of this workflow, which YANG models augment the interface?

- A. ietf-interfaces and ietf-ip
- B. iana-if-type and ietf-interfaces
- C. ietf-ip and openconfig-interface
- D. ietf-ip and iana-if-type

Correct Answer: B Section:

QUESTION 81

Refer to the exhibit.

```
---
- name: IOS XE Configuration
hosts: ios_xe
connection: local
gather_facts: false

tasks:
- name: IOS NTP
ios_ntp:
    provider: "{{ creds }}"
    server: 10.0.255.10
    source_int: GigabitEthernet2
    logging: false
```



Which key value pair from the ios_ntp Ansible module creates an NTP server peer?

A. state: present

B. state: True

C. config: present

D. config: True

Correct Answer: A

Section:

Explanation:

ios ntp: Manages core NTP configuration state: Manage the state of the resource Choices: present | absent Example:

Set new NTP server and source interface

- ios_ntp: server: 10.0.255.10 source_int: Loopback0 logging: false state: present

https://docs.ansible.com/ansible/latest/modules/ios ntp module.html

QUESTION 82

Refer to the exhibit.

```
name: VRFs
ios_vrf:
    vrfs: "{{ local_vrfs }}"
    state: present
    purge: yes
```

The YAML represented is using the ios vrf module. As part of the Ansible playbook workflow, what is the result when this task is run?

- A. VRFs not defined in the host vars file are removed from the device.
- B. VRFs not defined in the host_vars file are added to the device, and any other VRFs on the device remain.
- C. VRFs defined in the host_vars file are removed from the device.
- D. VRFs are added to the device from the host_vars file, and any other VRFs on the device are removed.

Correct Answer: D

Section:

QUESTION 83

Refer to the exhibit.

```
name: Configure Interfaces
with items: "{{interfaces}}'
                                                                                                dumps
netconf config:
 <<: *host info
 xml: |
       <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interefaces">
         <interface>
            <name>{(item.interface_type)){{item.interface_id}}</name>
           <description>{{item.description}}</description>
           <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
            <enabled>true</enabled>
           <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
             <address>
                <ip>{(item.ip_address))</ip>
                <netmask>({item.subnet mask})</netmask>
             </address>
           </ipv4>
         </interface>
       </interfaces>
```

As part of the Ansible playbook workflow, several new interfaces are being configured using the netconf_config module. The task references the interface variables that are unique per device. In which directory is the YAML file with these variables found?

- A. host_vars directory
- B. home directory
- C. group_vars directory
- D. current working directory

Correct Answer: A

Section:

Explanation:

https://docs.ansible.com/ansible/latest/user_guide/intro_inventory.html#organizing-host-andgroup-variables

QUESTION 84

A developer needs to configure an environment to orchestrate and configure. Which two tools should be used for each task? (Choose two.)

- A. Puppet for orchestration
- B. Terraform for orchestration
- C. Terraform for configuration
- D. Ansible for orchestration
- E. Ansible for configuration

Correct Answer: B, E

Section:

QUESTION 85

Application sometimes store configuration as constants in the code, which is a violation of strict separation of configuration from code. Where should application configuration be stored?

- A. environment variables
- B. YAML files
- C. Python libraries
- D. Dockerfiles
- E. INI files

Correct Answer: A

Section:

QUESTION 86

```
import sys, requests
URL = "http://ios-xe-mgmt.cisco.com:9443"
USER - 'root'
PASS = 'Clisco0123'
url = URL + "/restconf/data/ietf-interfaces:interfaces-state"
headers = { 'content-type': 'application/vang-data+json', 'accept':
            'application/yang-data+json'
  result = requests.get(url, auth=(USER, PASS), headers=headers)
   r_json = result.json()
   flagDown = 0
  for record in r_json["ietf-interfaces:interfaces"]["interface"]:
       print("{0:<35}".format("interface: " + record["name"]), end="")
print("{0:<5}".format("ip: "), end="")</pre>
        if('address' in record["ietf-ip:ipv4"]):
            print("(0:<15)".format(record["ietf-ip:ipv4"]["address"][0]["ip"]), end=""
             print("{0:<15}".format(record["No IPv4"], end="")
       print("(0:<9)".format("status: "), end="")
        print(str(record["enabled"]))
       if (record["enabled"] -- False):
             flagDown-1
  if (flagDown)
       print("At least one interface is down")
       print("All interfaces are up")
  print("Exception: " + str(sys.ecx_info()[0] + " " + str(sys.ecx_info()[1]))
  print("Error: " + str(result.status code), result.text)
```





- A. interface operational status in IPv6 addresses
- B. interface administrative status in IPv4 addresses
- C. interface operational status in IPv4 addresses
- D. interface administrative status in IPv6 addresses

Correct Answer: B Section:

QUESTION 87



```
module: ietf-routing
 +--ro routing-state
    +--ro routing-instance* [name]
       +--ro name
                                   string
       +--ro type?
                                   identityref
       +--ro router-id?
                                   yang:dotted-quad
       +--ro interfaces
          +--ro interface* if:interface-state-ref
        +--ro routing-protocols
          +--ro routing-protocol* [type name]
             +--ro type
                            identityref
             +--ro name
                            string
         --ro ribs
           +--ro rib* [name]
             +--ro name
                                      string
              +--ro address-family
                                      identityref
              +--ro default-rib?
                                      boolean (multiple-ribs)
              +--ro routes
                 +--ro route* [destination-prefix]
                    +--ro route-preference?
                                                route-preference
                    +--ro destination-prefix
                                                string
                    +--ro metric?
                                                uint32
                    --ro next-hop
                       +--ro (next-hop-options)
                          +--: (simple-next-hop)
                             +--ro outgoing-interface?
                             +--ro next-hop-address?
                                                         string
                          +--: (special-next-hop)
                             +--ro special-next-hop?
                                                          enumeration
                                                identityref
                    +--ro source-protocol
                    +--ro active?
                                                empty
                    +--ro last-updated?
                                                yang:date-and-time
                    +--ro update-source?
                                                string
 +--rw routing
    +--rw routing-instance* [name]
       +--rw name
                                   string
       +--rw type?
                                   identityref
       +--rw enabled?
                                   boolean
       +--rw router-id?
                                   yang:dotted-quad (router-id)?
       +--rw description?
                                   string
        +--rw interfaces
          +--rw interface* if:interface-ref
        +--rw routing-protocols
           +--rw routing-protocol* [type name]
             +--rw type
                                     identityref
             +--rw name
                                     string
             +--rw description?
                                     string
             +--rw static-routes
          rw ribs
           +--rw rib* [name]
             +--rw name
                                      string
             +--rw address-family?
                                      identityref
             +--rw description?
                                      string
```

lumps

https://ios-xe-ngmt-latest.cisco.com:9443/restconf/data/ietf-routing:routing-

state/routing-instance-default



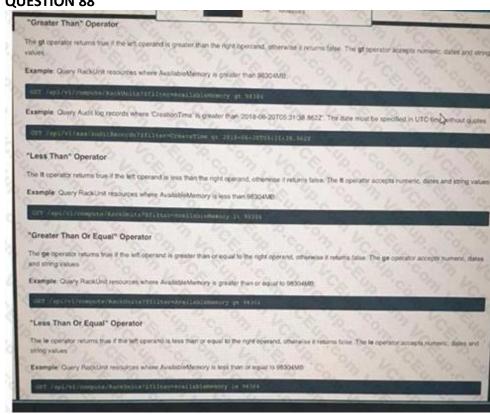


Refer to the exhibit above and click on the IETF Routing tab in the top left corner to help with this question. A developer is trying to update the routing instance by adding a new route to the routes list using the URL in the exhibit. What action must be taken to fix the error being received?

- A. Fix the body being sent to update the routes list.
- B. Update the authorization credentials.
- C. Change the url to "/ietf-routing:routing/routing-instance=default".
- D. Change the URL to "/ietf-routing:routing-instance/default".
- E. Change the HTTP Method being used to make the change

Correct Answer: C Section:

QUESTION 88





"Greater Than" Operator

The gt operator returns true if the left operand is greater than the right operand, otherwise it returns false. The gt operator accepts numeric, dates and string values.

Example: Query RackUnit resources where AvailableMemory is greater than 98304MB.

ET /api/v1/compute/RackUnitm?Sfilter=AvailableMemory of 98304

Example: Query Audit log records where 'CreationTime' is greater than 2018-06-20T05:31:38.862Z'. The date must be specified in UTC simulational quotes.

7 /api/v1/aaa/AuditRecords75filter=CreateTime gt 2018-06-20705:31:38.8621

"Less Than" Operator.

The It operator returns true if the left operand is less than the right operand, otherwise if returns false. The It operator accepts numeric, dates and string values

Example: Query RackUnit resources where AvailableMemory is less than 98304MB.

ET /api/vl/compute/RackOnita75filter=AvailableMemory to SELLA

"Greater Than Or Equal" Operator

The ge operator returns true if the left operand is greater than or equal to the right operand, otherwise it returns false. The ge operator accepts numeric, dates and string values

Example: Query RackUnit resources where AvailableMemory is greater than or equal to \$6304MB:

ET /801/91/compute/BackUnitePffiltersAvallableMemory of SEAS

"Less Than Or Equal" Operator

The le operator returns true if the left operand is less than or equal to the right operand, otherwise it returns talse. The te operator accepts numeric, dates and string values.

Example: Query RackUnit resources where AvailableMemory is less than or equal to 98304MB

CTT /and full ferminas (Sarkite is a 255) Laurahyai Lab Laffenory La 25354



Click on the GET Resource button above to view resources that will help with this question. An engineer is managing a DC with 6000 Cisco UCS servers installed and running. The engineer has been asked to identify all resources where the model is in the UCSB family and the available memory is less than or equal to 5 GB. Which REST API call accomplishes this task?

- A. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=not(Model eq 'UCSC') and AvailableMemory le 5000
- B. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=Model eq 'UCSB' and AvailableMemory lt 5000
- C. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=contains(Model, UCSB') and AvailableMemory lt 5000
- D. GET/api/v1/compute/RackUnits?\$select=Vendor,Model,Serial&\$filter=contains(Model, UCSB') and AvailableMemory le 5000

Correct Answer: D

Section:

Explanation:

https://intersight.com/apidocs/introduction/query/#filter-query-option-filtering-the-resources

QUESTION 89

Refer to the exhibit.



Which RESTCONF verb changes the GigabitEthernet2 interface from 192.168.100.1/24 to 10.10.10.1/24

- A. POST
- B. PATCH
- c. GET
- D. HEAD

Correct Answer: A

Section:

QUESTION 90

The Meraki API URL https://api.meraki.com/api/v0/networks/123456789/ssids/2 has been stored in the environment variable meraki_url and the API key has been stored in meraki_api_key. Whichsnippet presents the API call to configure, secure and enable an SSID using the Meraki API?

A.

```
curl -X PUT --url Smeraki_url \
-H 'X-Cisco-Meraki-API-Key: 'Smeraki_api_key \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"name": "My SSID",
"enabled": true,
}
```

В.

```
curl -X PUT --url Smeraki_url
-H 'X-Cisco-Meraki-API-Key: 'Smeraki_api_key
-H 'Accept: application/json'
-H 'Content-type: application/json'
--data-raw '[
"enabled": true,
"useVlanTagging": true
]
```

C.

```
curl -% PUT --url Smeraki_url
-M 'X-Cisco-Meraki-API-Key: 'Smeraki_api_key
-M 'Accept; application/json'
-M 'Content-type; application/json'
--data-raw '[
"name": "My SSID", "enabled": true,
"name": "My SSID", "enabled": true,
"authMode": "pak", "encryptionMode": "ypa",
"psk": "merakilli",
"psk": "merakilli",
"psk": "hPAL and MPAL"

"upaEncryptionMode": "HPAL and MPAL"
```

U-dumps

D.

```
curl -X FOT --url Smeraki_url
-M 'X-Cisco-Meraki-AFI-Keyr 'Smeraki_api_key
-M 'Accept: application/jeon'
-M 'Content-type: application/jeon'
--data-raw '!
"name": "My selo": "enabled": false;
"name": "My selo": "enabled": false;
"authMode": "pak": "encryptionMode": "upa";
```

Correct Answer: C Section:

QUESTION 91

A developer plans to create a new bugfix branch to fix a bug that was found on the release branch. Which command completes the task?

A. git checkout -b RELEASE BUGFIX

- B. git checkout -t BUGF1X RELEASE
- C. git checkout -b BUG FIX RELEASE
- D. git checkout -t RELEASE BUGFIX

Correct Answer: C

Section:

QUESTION 92

What is a benefit of continuous testing?

- A. decreases the frequency of code check-ins
- B. removes the requirement for test environments
- C. enables parallel testing
- D. increases the number of bugs found in production

Correct Answer: C

Section:

QUESTION 93

In the three-legged OAuth2 authorization workflow, which entity grants access to a protected resource?

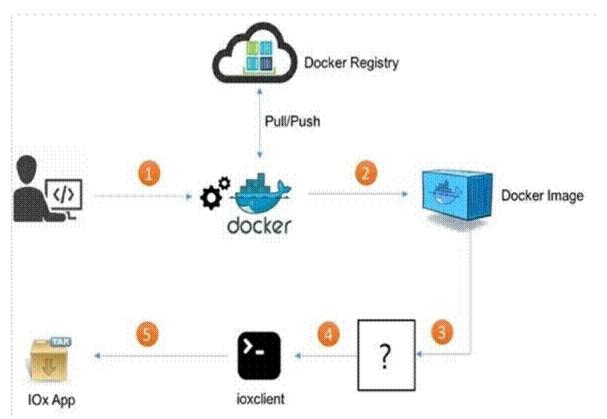
- A. resource server
- B. resource owner
- C. client
- D. authorization server

Correct Answer: A

Section:

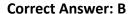
QUESTION 94





What is the missing step in deploying a Docker container to lOx?

- A. Pull/push the image to the Docker registry,
- B. Build the package.yaml file.
- C. Build the package.cert file to sign the app,
- D. Log in to Device Manager.



Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/support/docs/routers/1101-industrial-integratedservices-router/214383-build-and-deploy-a-docker-iox-package-fo.html https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2017/pdf/DEVNET-2039.pdf https://www.cisco.com/c/en/us/support/docs/cloud-systems-management/iox/211534-Configure-a-Small-Alpine-Linux-Docker-Im.html

QUESTION 95



```
apiVersion: vl
clusters:
" cluster:
   certificate-authority: fake-ca-file
   server: https://l.2.3.4
 name: development
 cluster:
   insecure-skip-tls-verify: true
  server: https://5.6.7.8
 name: scratch
contexts:

    context:

   cluster: development
   namespace: frontend
   user: developer
 name: dev-frontend
- context:
   cluster: development
   namespace: storage
  user: developer
 name: dev-storage
- context:
   cluster: scratch
   namespace: default
                                                           dumps
   user: experimenter
 name: exp-scratch
current-context: ""
kind: Config
preferences: ()
usersi
- name: developer
   client-certificate: fake-cert-file
   client-key: fake-key-file
- name: experimenter
 user:
   password: some-password
   username: exp
```

A kubeconfig file to manage access to Kubernetes clusters is shown. How many Kubernetes clusters are defined in the file, and which cluster FS accessed using username/password authentication rather than using a certificate?

- A. three dusters; scratch
- B. three clusters: development
- C. two dusters; development
- D. two clusters: scratch

Correct Answer: D

Section:

QUESTION 96

Which tool is used to deploy an IOx application to a group of IOx devices at one time?

- A. ioxclient
- B. 10x local manager
- C. Fog Network Director
- D. Kubernetes

Correct Answer: C

Section:

QUESTION 97

Which two design considerations should be considered when building a Cisco Meraki dashboard out of available APIs? (Choose two,)

- A. API call volume is rate-limited to five calls per second per organization.
- B. The API version does not need to be specified in the URL.
- C. Access to the API must first be enabled by using the settings for an organization.
- D. The API requests require the key and the user credentials.
- E. If the API key is shared, it cannot be regenerated

Correct Answer: C, D

Section:

Explanation:

https://documentation.meraki.com/General_Administration/Other_Topics/Cisco_Meraki_Dashboar d_API#Enable_API_Access



QUESTION 98

Refer to the exhibit, The command docker build -tag=friendlyhello is run to build a docker image from the given Dockerfile, requirements,txt, and app.py, Then the command docker run -p 4000:80 friendlyhello is executed to run the application. Which URL is entered in the web browser to see the content served by the application?

- A. http://localhost:4000
- B. http://localhost:80
- C. http://127.0.0.1:80
- D. http:///4000:80

Correct Answer: D

Section:

QUESTION 99

Refer to the exhibit.

Which code snippet completes this code to handle API rate-limit?

- A. response.status code !*= 408
- B. response.status != 408
- C. response.status_code 1= 429
- D. response.status_code == 429

Correct Answer: C

Section:

QUESTION 100

An engineer must enable an SSID in a Meraki network. Which request accomplishes this task?

- A. PUT /networks/{networkld}/ssids/{number} {"enable": true)
- B. POST /networks/{networkid}/ssids/{number) {"enable": true)
- C. PUT /networks/{networkld}/ssids/{number}?enabled=true
- D. POST /networks/{networkid}/sslds/{number}?enabled=true

Correct Answer: A

Section:

QUESTION 101

A team of developers created their own CA and started signing certificates for all of their loT devices, Which action will make the browser accept these certificates?

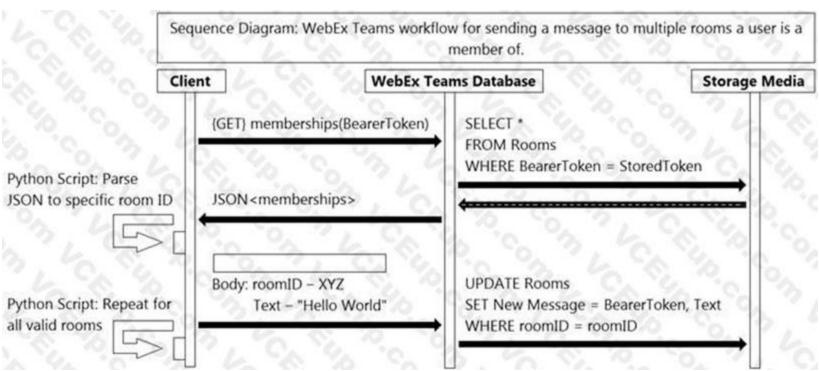
- A. Set the private keys 1024-bit RSA.
- B. Preload the developer CA on the trusted CA list of the browser.
- C. Enable HTTPS or port 443 on the browser.
- D. install a TLS instead of SSL certificate on the loT devices.

Correct Answer: B

Section:

QUESTION 102





Which action will complete the workflow that represents how an API call sends multiple messages?

- A. {PUT} messages(roomID)
- B. {PUT} messages(BearerToken)
- C. {POST} messages(roomID)
- D. {POST} messages(BearerToken)



Section:

Explanation:

https://developer.webex.com/docs/api/v1/messages/create-a-message

QUESTION 103

Which two types of organization are subject to GDPR? (Choose two.)

- A. only organizations that operate outside the EU
- B. any organization that offers goods or services to customers in the EU
- C. only organizations that have offices in countries that are part of the EU
- D. any organization that operates within the EU
- E. only organizations that physically reside in the EU

Correct Answer: B, D

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/products/security/comply-with-GDPR.html

QUESTION 104

A developer deploys a SQLite database in a Docker container. Single-use secret keys are generated each time a user accesses the database. The keys expire after 24 hours. Where should the keys be stored?

A. Outside of the Docker container in the source code of applications that connect to the SQLite database.



- B. In a separate file inside the Docker container that runs the SQLite database.
- C. In an encrypted database table within the SQLite database.
- D. In a separate storage volume within the Docker container.

Correct Answer: D

Section:

QUESTION 105

While working with the Webex Teams API, on an application that uses end-to-end encryption, a webhook has been received. What must be considered to read the message?

- A. Webhook information cannot be used to read the message because of end-to-end encryption. The API key is needed to decrypt the message.
- B. Webhook returns the full unencrypted message. Only the body is needed to query the API.
- C. Webhook returns a hashed version of the message that must be unhashed with the API key.
- D. Webhook returns message identification. To query, the API is needed for that message to get the decrypted information.

Correct Answer: D

Section:

Explanation:

room messages are considered sensitive information and since Webex initiated the request to your backend, it did not have your Access Token with which to decrypt the message. In order to get the sensitive information, your app needs to use the resource id to fetch the full resource. Using the above messages example, your app could fetch the complete message object along with the text by doing an authenticated (via your Bearer Token) GET request to /

messages/{id}

https://developer.webex.com/docs/api/guides/webhooks

QUESTION 106
Which Puppet manifest needs to be used to configure an interface GigabitEthernet 0/1 on a Cisco IOS switch?

```
ios interface {
                                  => 'GigabitEthernet0/1'
    name
                                  => false,
    link status
    logging event
         'spanning-tree',
         'subif-link-status'
    logging event link status
                                  => false,
    ip_dhcp_snooping_trust
                                  => true,
    ip dhcp snooping limit
                                  => 1500,
```

```
ios interface {
     'GigabitEthernet0/1'
      link status
                                   => false
      logging event
          'spanning-tree',
          'subif-link-status'
    logging event link staus
                                   => false,
    ip dhcp snooping trust
                                  => true,
                                  => 1500,
    ip_dhcp_snooping_limit
```

```
ios interface {
                                       => 'GigabitEthernet0/1'
         id
                                       => false,
         link_status
         logging event
              'spanning-tree',
              'subif-link-status'
        logging-event link status
                                       => false,
         ip_dhcp_snooping_trust
                                       => true,
         ip dhcp snooping limit
                                       => 1500,
D.
    ios interface
                          'GigabitEthernet0/1':
        link_status
                                       => false,
        logging event
              'spanning-tree',
              'subif-link-status'
        logging event link status
                                       => false,
        ip dhcp snooping trust
                                       => true,
```

=> 1500,

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



Correct Answer: D

Section:

Explanation:

https://github.com/puppetlabs/cisco_ios/blob/main/examples/network_interface.pp

QUESTION 107

What are two steps in the OAuth2 protocol flow? (Choose two.)

ip_dhcp_snooping_limit

- A. The user is authenticated by the authorization server and granted an access token.
- B. The user's original credentials are validated by the resource server and authorization is granted.
- C. The user indirectly requests authorization through the authorization server.
- D. The user requests an access token by authentication and authorization grant presentation.
- E. The user requests the protected resource from the resource server using the original credentials.

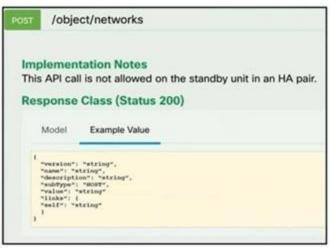
Correct Answer: A, E

Section:

Explanation:

Reference: https://www.digitalocean.com/community/tutorials/an-introduction-to-oauth-2

QUESTION 108



Refer to the exhibit. A developer must create a new network object named testnetwork by using the Cisco Firepower Device Management API. The script must also handle any exceptions that occur during the request and print out any resulting errors. Which script must be used?

```
import requests, json
headers = { 'Content-type': 'application/json'}
data = { "name": "testnetwork",
  "description": "Test Network", "subType": "HOST",
  "value": "192.168.1.1", "type": "networkobject"}
try:
    response = requests.post(
        'https://firepower-server/object/networks',
        data=data, headers=headers)
    response.raise_for_status()
except:
    print(error)
```





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

Section:

Correct Answer: A

QUESTION 109

What is the gRPC Network Management Interface protocol?

- A. a unified management protocol for streaming telemetry and database logging
- B. a configuration management protocol for monitoring
- C. a protocol for configuration management and streaming telemetry
- D. a logging protocol used across database servers

Correct Answer: C

Section:

Explanation:

Reference: https://infohub.delltechnologies.com/l/enterprise-sonic-distribution-by-delltechnologies-lifecyclemanagement/grpc-network-management-interface

QUESTION 110

An application has been developed for monitoring rooms in Cisco Webex. An engineer uses the application to retrieve all the messages from a Cisco Webex room, but the results are slowly presented. Which action optimizes

calls to retrieve the messages from the /v1/messages endpoint?

- A. Define the ma property by using the pagination functionality.
- B. Set the beforeMessage property to retrieve the messages sent before a specific message ID.
- C. Avoid unnecessary calls by using a prior request to /v1/rooms to retrieve the last activity property.
- D. Filter the response results by specifying the created property in the request.

Correct Answer: A

Section:

Explanation:

Reference: https://apphub.webex.com/messaging/applications/paginate-cisco-systems-82277

QUESTION 111

What are two principles according to the build, release, run principle of the twelve-factor app methodology? (Choose two.)

- A. Code changes are able to be made at runtime.
- B. Separation between the build, release, and run phases.
- C. Releases should have a unique identifier.
- D. Existing releases are able to be mutated after creation.
- E. Release stage is responsible for compilation of assets and binaries.

Correct Answer: B, C

Section:

Explanation:

Reference: https://www.bmc.com/blogs/twelve-factor-app/

U-dumps

QUESTION 112

A developer is building an application to access a website. When running the application, an HTTP403 errorcode has been received. How should the application be modified to handle this code?

- A. Create a loop on cancel the operation and run a new one after the code is received.
- B. Use exponential backoff when retrying distributed services and other remote endpoints.
- C. Build a try/except around the urlopen to find errors occurring in the request.
- D. Redirect the request to an internal web server and make a new request from the internal resource.

Correct Answer: B

Section:

QUESTION 113

When end-to-end encryption is implemented, which area is most vulnerable to exploitation?

- A. cryptographic key exchange
- B. endpoint security
- C. cryptographic key generation
- D. security of data in transit

Correct Answer: B

Section:

QUESTION 114

```
#k8s-nginx.yml
apiVersion: apps/vl
kind: Deployment
metadata:
     name: nginx-deployment
     labels:
     app: nginx
     replicas: 1 selector:
      matchLabels:
          app: nginx
     template:
      metadata:
          labels:
              app: nginx
      spec:
          containers:
          - name: nginx
image: nginx
            ports:
            - name: nginx-port
              containerPort: 80
apiVersion: vl
kind: Service
metadata:
    name: load-balancer
spec:
     selector:
     app: nginx
 ports:
     - port: 80
     targetPort: nginx-port
 type: LoadBalancer
```

Refer to the exhibit. The presented application consists of a Nginx container and a load balancer service. Which GitLab CI/CD configuration implements the Kubernetes deployment?

```
Deploy:
           stage: Deployment
           script:
                 - kubectl exec -k k8s-nginx.yml
B.
     Deploy:
           stage: Deployment
           script:
                 - kubectl apply -f k8s-nginx.yml
     Deploy:
           stage: Deployment
           script:
                 - kubectl apply -k k8s-nginx.yml /patch/to/cluster
     Deploy:
           stage: Deployment
           script:
                 - kubectl exec -f k8s-nginx.yml /patch/to/cluster
A. Option A
B. Option B
C. Option C
D. Option D
Correct Answer: B
Section:
Explanation:
https://kubernetes.io/docs/reference/kubectl/kubectl/
```

QUESTION 115

What are two benefits of using distributed log collectors? (Choose two.)

- A. supports multiple transport protocols such as TCP/UDP
- B. improves performance and reduces resource consumption
- C. provides flexibility due to a wide range of plugins and accepted log formats

- D. enables extension of logs with fields and export to backend systems
- E. buffers and resends data when the network is unavailable

Correct Answer: B, E

Section:

QUESTION 116

What are two features of On-Box Python for hosting an application on a network device? (Choose two.)

- A. It has direct access to Cisco IOS XE CLI commands.
- B. It is a Python interpreter installed inside the guest shell.
- C. It enables execution of XML scripts on a Cisco IOS XE router or switch.
- D. It supports Qt for graphical interfaces and dashboards.
- E. It has access to Cisco IOS XE web UI through a controller.

Correct Answer: A, B

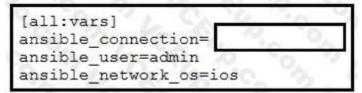
Section:

Explanation:

Reference: https://blog.wimwauters.com/networkprogrammability/2020-06-08 guestshell onbox/

QUESTION 117

Refer to the exhibit.





An engineer is configuring Ansible to run playbooks against Cisco IOS XE Software. What should be configured in ansible.cfg as the connection type?

- A. network cli
- B. ssh
- C. shell
- D. command

Correct Answer: B

Section:

Explanation:

Reference: https://docs.ansible.com/ansible/latest/user_guide/intro_inventory.html

QUESTION 118

A local Docker container with a Container ID of 391441516e7a is running a Python application. Which command is used to connect to a bash shell in the running container?

```
A. docker attach <Container ID>

B. docker exec -it <Container ID> /bin/bash

C. docker run -a stdin -a stdout <Container ID> /bin/bash

D. docker container attach <Container ID>
```

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

Correct Answer: A

Section:

QUESTION 119



Refer to the exhibit. The JSON response is received from the Meraki location API. Which parameter is missing?

- A. apMac
- B. clientMac
- C. clientId
- D. accesspoint

Correct Answer: B

Section:

Explanation:

Reference: https://community.meraki.com/t5/Developers-APIs/Location-lat-lng-and-x-y-areshowing-similar-for-all-devices/td-p/65707

QUESTION 120

Which two gRPC modes of model-driven telemetry are supported on Cisco IOS XE Software? (Choose two.)

- A. dial-in
- B. dial-out
- C. call-in
- D. call-out
- E. passive

Correct Answer: A, B

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1612/b 1612 programmability cg/model driven telemetry.html#id 86392

QUESTION 121

Refer to the exhibit.

```
"version":
"secret": "supersecret",
"type": "DevicesSeen",
"data": {
   "apMac": "00:18:0a:13:dd:b0"
   "apFloors": [],
    "apTags": [
        "home",
        "test"
```

Which parameter is missing from the JSON response to confirm the API version that is used? dumps

- A. version 4
- B. v 10
- c. 2
- D. version 2

Correct Answer: C

Section:

QUESTION 122

What is a capability of the End User Monitoring feature of the AppDynamics platform?

- A. discovers traffic flows, nodes, and transport connections where network or application/network issues are developing
- B. monitoring local processes, services, and resource use, to explain problematic server performance
- C. identifies the slowest mobile and IoT network requests, to locate the cause of problems
- D. provides metrics on the performance of the database to troubleshoot performance-related issues

Correct Answer: C

Section:

Explanation:

Reference: https://docs.appdynamics.com/display/PRO21/Overview+of+End+User+Monitoring

QUESTION 123

```
$ git checkout release-2.1
Switched to branch 'release-2.1'
Your branch is up to date with 'origin/release-2.1'.

$ git add -A
& git commit -m "Demo"
[release-2.1 6226cf6] Demo
    1 file changed, 3 insertions(+)
$ git merge dev
Auto-merging python/mac.py
CONFLICT (content): Merge conflict in python/mac.py
Automatic merge failed; fix conflicts and then commit the result.
```

Refer to the exhibit. Which command resolves the merge conflict by removing the previous commit from the commit history?

- A. git checkout mac.py
- B. git reset --hard HEAD~1
- C. git rebase --abort
- D. git revert -m 1 HEAD
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B Section:

QUESTION 124

What is the function of dependency management?

A. separating code into modules that execute independently



- B. utilizing a single programming language/framework for each code project
- C. automating the identification and resolution of code dependencies
- D. managing and enforcing unique software version names or numbers

Correct Answer: A

Section:

QUESTION 125

```
module: ietf-interfaces
  +--rw interfaces
    +--rw interface* [name]
    +--rw name
                                     string
    +rw description?
                                     string
    +--rw type
                                     identityref
    +--rw enabled?
                                     boolean
    +--rw link-up-down-trap-enable?
                                     enumeration {if-mib}?
  +--ro interfaces-state
   +--ro interface* [name]
    +--ro name
                           string
                           identityref
    +--ro type
    +--ro admin-status enumeration {if-mib}?
                           enumeration
    +--ro oper-status
    +--ro last-change?
                           yang:date-and-time
    +--ro if-index
                           int32 {if-mib}?
    +--ro phys-address?
                           yang:phys-address
                                                               dumps
    +--ro higher-layer-if* interface-state-ref
    +--ro lower-layer-if*
                           interface-state-ref
    +--ro speed?
                           yang:gauge64
    +--ro statistics
                +--ro discontinuity-time
                                           yang:date-and-time
                +--ro in-octets?
                                           yang:counter64
                +--ro in-unicast-pkts?
                                           yang:counter64
                +--ro in-broadcast-pkts?
                                           yang:counter64
                +--ro in-multicast-pkts?
                                           yang:counter64
                +--ro in-discards?
                                           yang:counter32
                +--ro in-errors?
                                           yang:counter32
                +--ro in-unknown-protos?
                                           yang:counter32
                +--ro out-octets?
                                           yang:counter64
                +--ro out-unicast-pkts?
                                           yang:counter64
                +--ro out-broadcast-pkts?
                                           yang:counter64
                +--ro out-multicast-pltas?
                                           yang:counter64
                +--ro out-discards?
                                           yang:counter32
                +--ro out-errors?
                                           yang:counter32
```

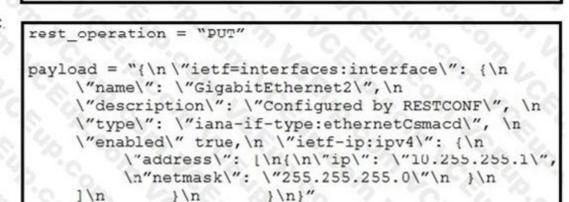
Refer to the exhibits. An interface named "GigabitEthernet2" has been configured on a Cisco IOS XE device. Using RESTCONF APIs as defined by the ietf-interfaces@2014-05-08.yang model, which two combinations of "rest_operation" and "payload" must be added to the Python script to set the "description" to "Configured by RESTCONF"? (Choose two.)

```
rest_operation = "PATCH"

payload = " {\n \"ietf-interfaces:interface\": {\n \"name\": \"GigabitEthernet2\", \n \ "description\": \"Configured by RESTCONF\" \n }\n}"
```

```
B.
rest_operation = "PUT"

payload = " {\n \"ietf-interfaces:interface\": {\n \"name\": \"GigabitEthernet2\", \n \ "description\": \"Configured by RESTCONF\" \n }\n}"
```





```
rest operation = "POST"
   payload = " {\n
                      \"ietf-interfaces:interface\": {\n
        \"name\": \"GigabitEthernet2\", \n
        \ "description\": \"Configured by RESTCONF\" \n
        }\n}"
E.
   rest operation = "POST"
   payload = "{\r\"ietf=interfaces:interface\": {\n
        \"name\": \"GigabitEthernet2\", \n
        \"description\": \"Configured by RESTCONF\", \n
        \"type\": \"iana-if-type:ethernetCsmacd\", \n
        \"enabled\" true, \n \"ietf-ip:ipv4\": {\n
             \"address\": [\n{\n\"ip\": \"10.255.255.1\",
             \n"netmask\": \"255.255.255.0\"\n }\n
                            }\n}"
                  }\n
```

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

Correct Answer: A, B Section:

QUESTION 126

What is a well-defined concept for GDPR compliance?

- A. Records that are relevant to an existing contract agreement can be retained as long as the contract is in effect.
- B. Data controllers must confirm to data subjects as to whether where, and why personal data is being processed.
- C. Personal data that was collected before the compliance standards were set do not need to be protected.
- D. Compliance standards apply to organizations that have a physical presence in Europe.

Correct Answer: B

Section:

QUESTION 127



```
module: Cieco-IOS-XE-native
  +--rw native
     +--rw interface
         *--rw GigabitEthernet* [name]
           +--EW DAMe
           +--rw media-type?
                                             enumeration
                                             enumeration
           *--rw port-type?
           *--rw description?
                                             string
            +--rw switchport-conf
              --- rw switchport? boolean
           *--rw switchport (ios-features:switching-platform)?
            +--rw stackwise-virtual
                                             winte
              *--rw link?
             +--rw dual-active-detection?
                                             empty
           +--IW mac-address?
                                             pring
           +--rw shundown?
           +--rw arp
            | --- rw timeout? uint32
```

Interface Lookback 1 must be created with IP address 10.30.0.1/24 in a Cisco IOS XE device using RESTCONF. The schema that is defined by the exhibit must be used. Which body and URI should be used for this operation?

```
POST
/restconf/data/Cisco-IOS-XE-native:native/interfaces

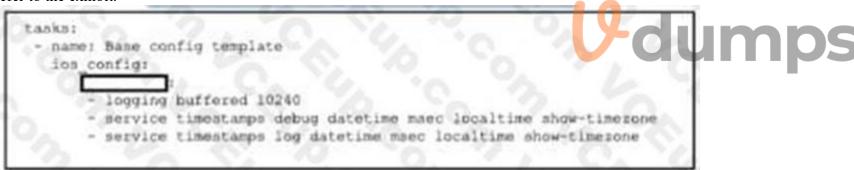
{ "Loopback": [{
    "name": "1",
    "description": "Loopback 1 = description",
    "ip": [
    "address": {
        "primary: { "address": 10.30.0.1",
        "mask": "24" }
    ]
}
```

D.

Correct Answer: A Section:

QUESTION 128

Refer to the exhibit.



Which word is missing from this Ansible playbook shown, to allow the Cisco IOS XE commands for router configuration to be pushed after the playbook is executed?

- A. Commands
- B. Input
- C. Lines
- D. cofig

Correct Answer: C Section:

QUESTION 129

	ice ps cisco_devne			
ID STATE	NAME DESIRED STATE	SERVICE	INAGE	LAST
d61834d1d0ce minutes Runn	cisco_devnet.1 ing dcl.ci	cisco_devnet	devnet/test:1.0	Running 2
minutes Runn	ing del.ci	eco.com	devnet/test:1.0	Running 2
minutes Runn	ing dc2.ci	100.00M		Running 2
minutes Runn	ing dc3.ci	800.00m	devnet/test:1.0	Running 2
88dd012de364	cieco_devnet.5 ing dc4.ci	cisco_devnet	devnet/test:1.0	Running 2

The cisco_devnet Docker swarm service runs across five replicas The development team tags and imports a new image named devnet'test 1 1 and requests that the image be upgraded on each container There must be no service outages during the upgrade process Which two design approaches must be used? (Choose two.)

- A. Implement rolling upgrades by using the docker service update command.
- B. Enable parallel upgrades by using the docker service update command.
- C. Ensure that the service is hosted behind a VIP with no session persistence.
- D. Update the restart policy of the containers to restart upon failure.
- E. Ensure that the service replicas are set to a minimum of 5

Correct Answer: A, C

Section:

QUESTION 130

How is AppDynamics used to instrument an application?



- A. Provides visibility into the transaction logs that can be correlated to specific business transaction requests
- B. Enables instrumenting a backend web server (or packet installation by using an AppDynamics agent
- C. Retrieves a significant amount of information from the perspective of the database server by using application monitoring
- D. Monitors traffic flows by using an AppDynamics agent installed on a network infrastructure device

Correct Answer: A

Section:

QUESTION 131

An engineer is developing a Docket container for an application in Python For security reasons the application needs to be accessible on port 5001 only Which line should be added to the dockerfile m order to accomplish this?

- A. ENTRYPOINT 5001
- B. PORT SRC 5001
- c. ADO PORT 5001
- D. EXPOSE 5001

Correct Answer: D

Section:

QUESTION 132

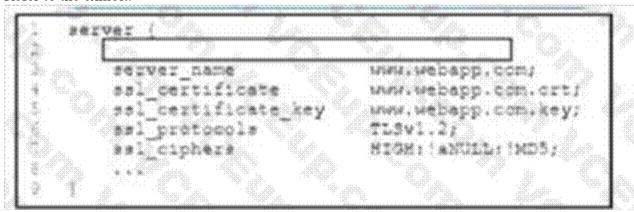
Which OAuth mechanism enables clients to continue to have an active access token without further interaction from the user?

- A. JWT
- B. password grant
- C. refresh grant
- D. preshared key

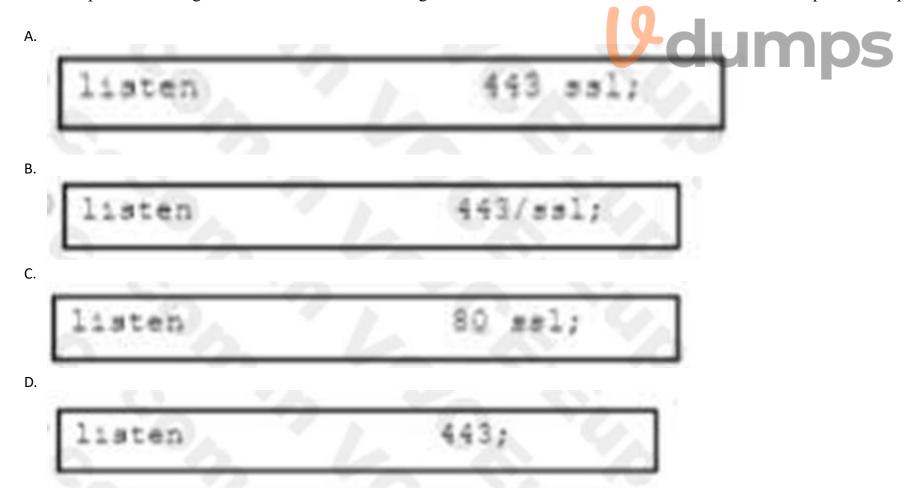
Section:

QUESTION 133

Refer to the exhibit.



A developer must configure an SSL certificate for an nginx web server Which code must be added on the script to accomplish this configuration?



Correct Answer: A

Section:

QUESTION 134

A web application is being developed to provide online sales to a retailer. The customers will need to use their username and passwords to login into then profile and complete their order For this reason the application must store user passwords Which approach ensures that an attacker wifi need to crack the passwords one at a time?

- A. Apply the peppering technique
- B. Store the passwords by using asymmetric encryption
- C. Apply the salting technique
- D. Store the passwords by using symmetric encryption

Correct Answer: C

Section:

QUESTION 135



Which scenario is an example of the pseudonymization of sensitive data that meets GDPR requirements?

- A. encrypting sensitive data at rest by using native cloud services and data in transit by using SSL/TLS transport
- B. implementing XFowarded For at the frontend of a web app to enable the source IP addresses of headers to change
- C. leveraging an application load balancer at the frontend of a web app for SSL/TLS decryption to inspect data in transit
- D. separating the sensitive data into its own dedicated secured data store and using tokens in its place

Correct Answer: A

Section:

QUESTION 136

Refer to the exhibit.

```
using GIT ASKFASS to set credentials
> git fetch -tags -force -progress -- http://73aee195f715/root/ms-master.git
+refs/heads/*:refs/remotes/origin/* it imeout=10
ERROR: Error fetching remote repo 'origin'
hudson.plugins.git.GitException: Failed to fetch from http://73aee195f715/root/ms-
master.git
at hudson.plugins.git.GitExM.fetchFrom(GitSCM.java:908)
at hudson.plugins.git.GitSCM.retrieveChanges(GitSCM.java:1123)
at hudson.plugins.git.GitSCM.checkout(GitSCM.java:1159)
at hudson.scm.SCM.checkout(SCM.java:505)
at hudson.model.AbstractFroject.checkout(AbstractProject.java:1205)
at
hudson.model.AbstractBuildSAbstractBuildExecution.defaultCheckout(AbstractBuild.java:
1574)
at jenkins.scm.SCMCheckoutStrategy.checkout(SCMCheckoutStrategy.java:86)
at
hudson.model.AbstractBuildSAbstractBuildExecution.run(AbstractBuild.java:499)
at hudson.model.Run.execute(Run.java:1853)
at hudson.model.Run.execute(Run.java:1853)
at hudson.model.ResourceController.execute(ResourceController.java:97)
at hudson.model.Executor.run(Executor.java:427)
Caused by: hudson.plugins.git.GitException: Command "git fetch --tags --force --
progress -- http://73aee195f715/root/ms-master.git
*refs/heads/*:refs/remotes/origin/* returned status code 128:
stder: remote: GitLab is not responding
fatal: unable to access 'http://73aee195f715/root/ms-master.git/': The requested URL
returned error: 502
```



An attempt to execute a CI/CD pipeline results m the error shown What is the cause of the error?

- A. The VCS repository is unavailable
- B. The unit tests failed to complete
- C. The built artifacts failed to publish to the target server
- D. The remote library repository is unavailable

Correct Answer: D

Section:

QUESTION 137

Which security approach should be used for developing a REST API?

- A. Use custom security relevant HTTP response codes
- B. Utilise TLS for end to end encryption
- C. Add an API key to each URL string
- D. Utilize CORS headers

Correct Answer: B

Section:

QUESTION 138

What is a benefit of using model-driven telemetry?

- A. enables operational data to be collected at higher rates and a higher scale
- B. enables the application to pull data faster than pushing the data
- C. reduces the load on the server by enabling the client to pull data
- D. simplifies the development of clients by using a single encoding standard for the data

Correct Answer: D

Section:

QUESTION 139

A developer has issued git add file1 and file2 test.py command to add the three files for the next commit, but then decides to executed test.py from this command. Which command needs to be used to exclude test.py from this commit but keep the rest of the files?

- A. git clean test.py
- B. git reset test py
- C. git checkout file1 file2
- D. git stash -- file1 file 2

Correct Answer: B

Section:

QUESTION 140

Refer to the exhibit.



```
import requests, requests_cache
from flask import flask, render_template, request, jsonify

app = flask(__name__)
requests_cache.install_cache('app_cache', backend='redis', expire_after=900)

app.route('/', methods=['GET','FOST')
def devnet():
    if request.method == 'FOST':
        location = request.form.get('location')
        url = "https://devnet.com/api/search/{0}".format(location)
        response_dict = requests.get(url).json()
        return jsonify(response_dict)
    return render_template('index.html')

if __name__ == '__main__':
    app.run()
```

An application has been developed to serve the users in an enterprise After HTTP cache controls are implemented m the application users report that they receive state data when they refresh the pageWithout removing HTTP cache controls, which change ensures that the users get current data when refreshing the page'

- A. Reduce the expire after value to 60.
- B. Add a Cache-Control header that has a value of no-cache, no-store must-revalidate.
- C. Add an H-None-Match header that has a value of an Entity Tag.
- D. Add an Expires header that has a value of 0.

Section:

QUESTION 141

A developer must create VLANs 2-5 on a remote Cisco NX-OS switch by using an Ansible playbook The playbook must meet these requirements

- Configure the VLANs and a name for each VLAN
- Only run against the switches inventory group
- Execute from the local Ansible controller
- Prevent the collection of system information prior to execution

Which playbook must be used?



C.

```
- groups: switches

collect_info: mo

- name: Create VLANs

nmos_vlan: vlan_id="1-%" state=present
host=({ inventory_hostname })

- name: Configure VLAN Name
nmos_vlan: vlan_id=({ item.vid }) name=({
   item.name }) host={{ inventory_hostname }}

state=present
loop:

- { vid: 2, name: web }

- { vid: 3, name: db }

- { vid: 4, name: app }

- { vid: 5, name: mgmn }

- { vid: 5, name: mgmn }
```

D.

```
- hosts: switches
 oppnection: 127.0.0.1
 gather_facts: false
 TREES.
                                                     dumps
   - name: Create VLANs
     nxos_vian: vian_id="1-5
   etate: present
    host: (( inventory hostname
   - name: Configure VLAN Name
     nmos_vian: vian_id=[{ item.vid }] name=[
     item.name }} host=[ inventory_hostname ]
     atate-present
     loop: "( vid: 2, name: web ); { vid: 3, name:
     db 3. ( vid: 4, name: app ), ( vid: 5, name:
     mgmb >1
```

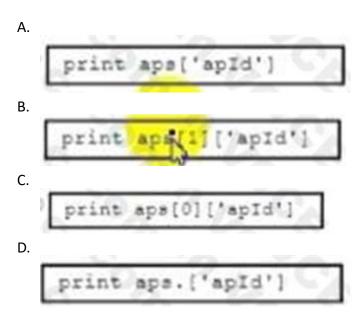
- E. Option A
- F. Option B
- G. Option C
- H. Option D

Correct Answer: A Section:

QUESTION 142

```
import json
     import requests
     from requests.exceptions import HTTPError
     url='https://devnet.ap.net/accesspoints/266
     try
         response = requests.get(url)
         response.raise for status()
     except HTTPError as http err:
 10
         print ('HTTP error occurred: '.format (http
 12
         print ('Success'')
         aps = json.loads(response.text)
         print json[0]['apId']
S python get-ap.py
Success!
(u'isactive': False, u'apId': 266, u'apName': 'reception'
Traceback (most recent call last):
File "get-ap.py", line 14, in <module>
   print aps[0]['apId']
ReyError: 0
```

A Python developer is creating a wireless network device inventory application for local deployment of Cisco access points The developer is retrieving an access point ID by using a REST API The output indicates that there was a KeyError when parsing the JSON response. What returns the expected output of 266 at line 14?



Correct Answer: A Section:

QUESTION 143



```
def istt_trader(service):
    logging.getlogger('').handlers = []
    logging.basisConfig(fd;mat*'% (maxaage)s', lewel*logging.DEBUG)
     config # Config!
        conflig#('eampler': {'type': 'occat', 'param': 1.1. 'logging': True.')
        service came * service, h
    return configunitialize_tracer()
tracer * init_tracer('dnac-tracer')
beas_url * 'https://sandboxdnag.orsco.com/'
with tracer, start_span("dosc-apimoalls") as span(
    with traper start span ("doec-auth", child of mapan) as site span;
             doac * DNACenterAPDiusername*'deVnetuser', password*'Clabol22''.
                                      base_url=base_orl, version='1.5.3';
                                      verifyPfalse:
             print('auth passed')
             site_span.set_tag('request*type', 'Spooses')
         except Exception as ex-
             print('failed')
             aine_apan.set_tag: request-type:...et
With twocer.etast_span("shac-list-devices", child_of*epan) as site_span).
         devices * [dnac.devices.get_device_list() for device_in devices[
         print(devices)
         site_mpan.set_tag('raquest-type', 'Sutcess')
    except Exception as all
        print('Pailed to list devices')
         site_span.set_tag: request-type', e:
```



An application is developed to perform multiple API calls. The calls will be performed on the infrastructure devices Delays in the information transfer occur when the application is executed What are two reasons for the issue? (Choose two)

- A. The list devices API call is failing and does not return a result
- B. Listing devices lakes longer than usual due to high network latency
- C. One of the API calls takes roughly three times as long to complete
- D. The list devices API call is inefficient and should be refactored
- E. The requests are being rate limited to prevent multiple calls causing the excessive load

Correct Answer: B, C Section:

QUESTION 144





Which action should be performed to avoid an SQL injection attack?

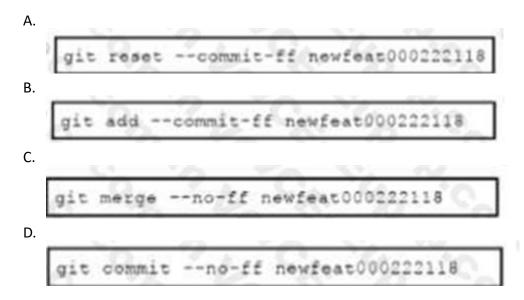
- A. Encrypt the password that is used to connect to the database
- B. Develop a denial of service response plan
- C. Vacate the input on the platform variable
- D. Compile the Python file instead of allowing live interpretation

Correct Answer: C

Section:

QUESTION 145

A developer is working on a new feature in a branch named 'newfeay000222118' and the current working primary branch is named 'pnm409024967' The developer requires a merge commit during a fast forward merge for record-keeping purposes. Which Git command must Be used?





Correct Answer: C

Section:

QUESTION 146

A developer is deploying an application to automate the configuration and management of Osco network files and routers The application must use REST API interface lo achieve programmability. The security team mandates that the network must be protected against DDoS attacks What mitigates the attacks without impacting genuine requests?

- A. API rate limiting at the application layer
- B. IP address filtering at the application layer
- C. traffic routing on the network perimeter
- D. firewall on the network perimeter

Correct Answer: D

Section:

QUESTION 147

A development team is working on a bug fix in a remote branch named "UXbug000222134' and the current working primary branch is named ,prod409024967' A developer who just joined the learn needs to checkout the remote branch

Which Git commands must be used?

```
git add UXbug000222134
git push origin

B.

git add UXbug000222134
git checkout -a

C.

git fetch --multiple
git branch Xbug000222134

D.

git fetch --all
git checkout UXbug000222134
```

Section:

QUESTION 148

Refer to the exhibit.



A network engineer writes a script to test authentication workflow using Python and REST API. The engineer wants to ensure that the script handles expected errors by matching output to HTTP status codes The script uses the Python requests module. Which line of code must be added on the snippet where the code is missing?

- A. requests.error code
- B. response.sutus_code
- C. response
- D. requests.post

Correct Answer: B

Section:

QUESTION 149

Refer to the exhibit Pipenv is used to manage dependencies The test funs successfully on a local environment. What is the reason for the error when running the test on a CI'CD pipeline?

- A. The piple in the local environment was not pushed to the remote repository
- B. All the unit tests in testsum py failed
- C. Pytest did not detect any functions that start with test_'.
- D. Nose2 was not used as the test runner

Correct Answer: A

Section:

QUESTION 150

Refer to the exhibit.



An engineer is managing a network that consists of Cisco IOSXE devices. There is a need to retrieve the details of the interface GigabitEthernet2 using RESTCONF. Which URI will accomplish this by providing the same response as shown in the JSON body?

```
A.

https://ios-xe-mgmt.cisco.com/restconf/data/
interface/name/GigabitEthernet2

B.

https://ios-xe-mgmt.cisco.com/restconf/data/
ietf-interfaces:interfaces/GigabitEthernet2

C.

https://ios-xe-mgmt.cisco.com/restconf/data/
ietf-interfaces/GigabitEthernet2

D.

https://ios-xe-mgmt.cisco.com/restconf/data/
ietf-interfaces:interface/GigabitEthernet2
```

Correct Answer: D Section:

QUESTION 151

Refer to the exhibit.

```
-rw interfaces
 ---rw interface* [name]
                                      string
   ++-IM Dame
    +--rw description?
                                      string
    +--rw type
                                      indentityref
    +--rw enabled?
                                      boolean
    +--rw link-up-down-trap-enable?
                                     enumeration
-- ro interfaces-state
 +--ro interface* [name]
   +--ro name
                            string
                            indentityref
    *--ro type
    +--ro admin-status
                            enumeration
    +-- ro oper-status
                            enumeration
    +--ro last-change?
                            yangidate-and-time
    +--ro if-index
                            yang:phys-address
    +--ro phys-address?
    ---ro higher-layer-if.
                            interface-state-ref
    *--ro lower-layer-if*
                           interface-state-ref
    +--ro speed?
                           yangigauge64
    +-- ro statistics
       --- ro discontinuity-time
                                 yangidate-and-tim
       ---ro in-octets?
                                 yang:counter64
       +--ro in-unicast-pkts?
                                  yang:counter64
      ---ro in-broadcast-pkts?
                                  yang:counter64
       +--ro in-multicast-pkts?
                                  yang:counter64
       +--ro in-discards?
                                  yangicounter32
       +--ro in-errore?
                                  yangicounter32
       **-ro in=unknown=protos?
                                 yang:counter32
```

Which URL retrieves the errors in the GigabitEthernet 1 interface?

```
/restconf/data/ietf-interfaces:interfaces/interface/\
GigabitEthernet1

// restconf/data/ietf-interfaces:interfaces-state/
GigabitEthernet1

C.
/restconf/data/ietf-interfaces:interfaces/\
GigabitEthernet1

D.
/restconf/data/ietf-interfaces:interfaces-state/\
interface=GigabitEthernet1
```

Correct Answer: D Section:

QUESTION 152

A local data center deployment using Cisco NX-OS switches is scaling and requires automatic configuration at scale Configuration management must be set up for a Cisco NX-OS switch by using Ansible. The Ansible control server is currently located on a different subnet than the switch The solution has these requirements

- The transport protocol used must be encrypted
- The connections must originate from a server m the same local network
- Enable mode must be supported Which connectivity method must be used?

- A. SSH through a bastion host and ansible_become method for privilege escalation.
- B. HTTPS through a repository and ansible_become method for privilege escalation
- C. XML-RPC through a web proxy.
- D. HTTP through a web proxy.

Correct Answer: A Section:

QUESTION 153



Which Puppet manifest changes the NTP server and generates the traffic from VLAN 15?

```
ntp_server { '172.30.200.11':
                 => 'present',
 ensure
                 => 94,
 key
                 ay true,
 prefer
 minpoll
 maxpoll
 vlan
```

В.

```
ntp server (
                      => '172.30.200.11'
 ip
                      => 'present',
 ensure
                      => 94)
 key
 prefer
 minpoll
 maxpoll
                     => 14<sub>0</sub>
 source_interface
```

C.

```
ntp_server [ '172.30.200.11':
 ensure
                    => 'present',
                   => 94,
 key
 prefer
                   m> true,
 minpoll
                   F> 4.
 maxpol1
                    => 14,
 source_interface
                   => 'Vlan 15',
```

U-dumps

D.

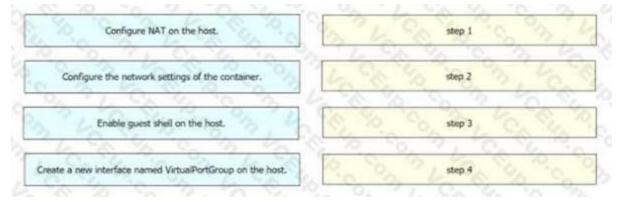
ntp server => '172,30,200.11' server => 'present', ensure => 94, key => true, prefer minpoll => 14, maxpoll source interface => 'Vlan 15',

Correct Answer: C Section:

QUESTION 154

DRAG DROP

Drag and drop the steps from the left into the order on the right to ensure that an application requiring communication to the external network is hosted on a Cisco Catalyst 9000 switch.



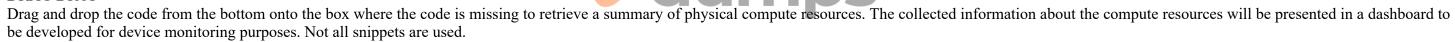
	Configure NAT on the host.
0 11 11 0 10 70	Configure the network settings of the container.
	Enable guest shell on the host.
	Create a new interface named VirtualPortGroup on the hos

Section:

Explanation:

QUESTION 155

DRAG DROP



Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 156

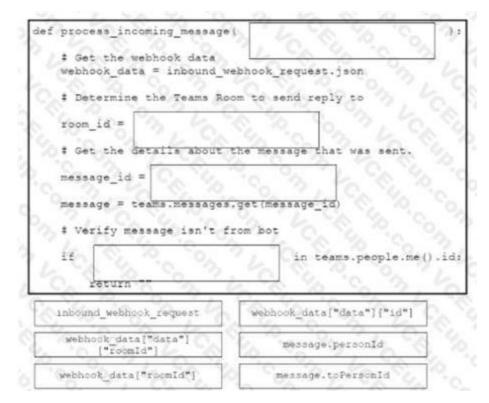
DRAG DROP

Refer to the exhibit.





Drag and drop the code from the bottom onto the box where the code is missing to complete the API request. An engineer is using this API request to implement Chat-Ops to generate notifications m a Webex space by using webhooks. Not all options are used.







Section:

Explanation:

QUESTION 157

DRAG DROP

A developer is creating a Python function that adds network engineers to a Webex room to troubleshoot after a monitoring alert Drag and drop the code from the bottom onto the box where the code is missing in the Python function to add the engineers to the room. Not all options are used.

header = {"	ntent-Type": "appl	": "Bearer %s" % toke ication/json")	n,	
80 7 CV	ail": member	://api.webexapi.com/vl	/membe:	rahipa",
3 6 6 7	heade	rs=header,	S 1	, verify=True)
if response.	60 4 C	1:2000		
if response.	heade ror inviting:" + m	1:2000]:	
if response.	60 4 C	1:2000		

	era):	02.31	50	190 C C C C C C C C C C C C C C C C C C C		
Authorization	": "Bearer	48" 4 to	ken,			
tent-Type": "appl	ication/jso	n")				
ul": member quests.post("http:		-		ships", , verify=True)		
status_code	!=	200	- 1	CA "64 "C.		
or inviting:" + s	member)	OA 7	7. 0	N41 " 6 "		
code				to Control		
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Authorization itent-Type": "appl room_id, iil": member quests.post("https: heade status_code for inviting:" + m	Authorization ": "Bearer stent-Type": "application/jso room_id, sil": member suests.post("https://api.webe headers=header, status_code != cor inviting:" + member)	Authorization ": "Bearer %s" % to itent-Type": "application/json") room_id, iil": member quests.post("https://api.webexapi.com/	Authorization ": "Bearer %s" % token, stent-Type": "application/json") room_id, sil": member quests.post("https://api.webexapi.com/vl/member	Authorization ": "Bearer %s" % token, stent-Type": "application/json") room_id, sil": member quests.post("https://api.webexapi.com/vl/memberships",	Authorization ": "Bearer %s" % token, itent-Type": "application/json") room_id, iil": member quests.post("https://api.webexapi.com/vl/memberships",

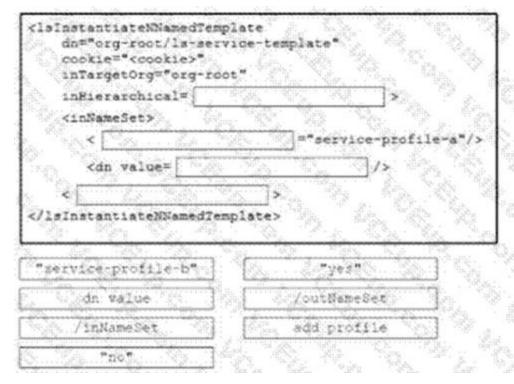
Section:

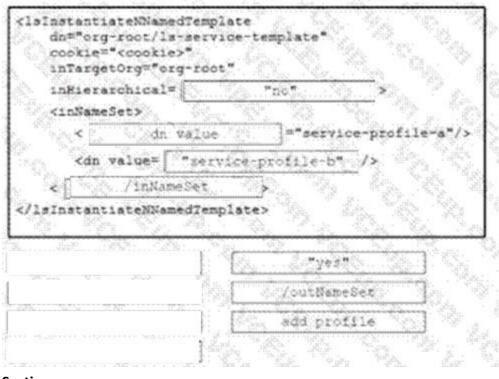
Explanation:

QUESTION 158

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to construct a UCS XML API request to generate two service profiles from the template org-root/is-service-template. Not at options are used







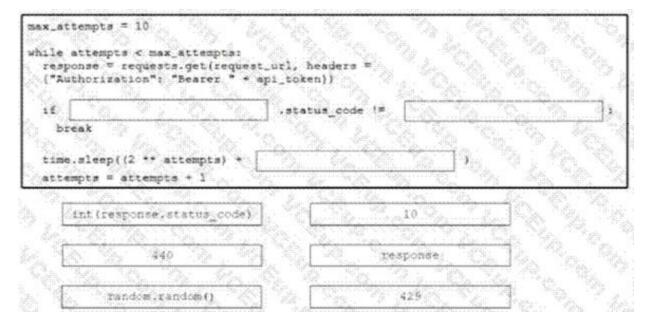
Section:

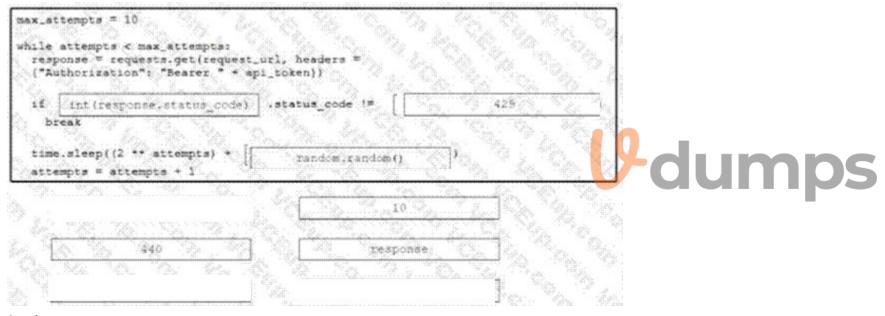
Explanation:

QUESTION 159

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to stop the REST API requests if a 'Too Many Requests' response is received Not all options are used.





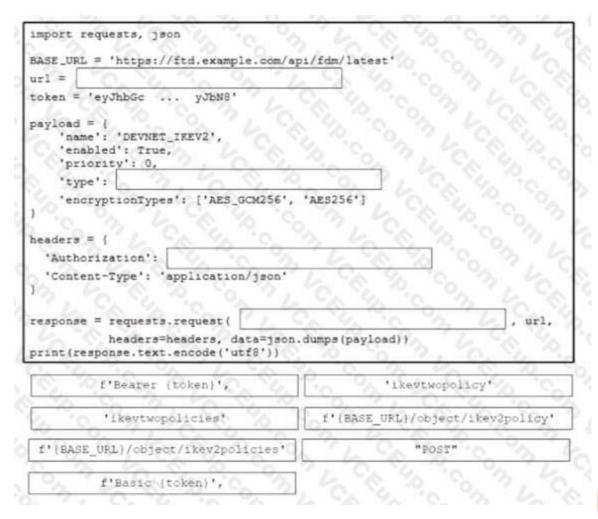
Section:

Explanation:

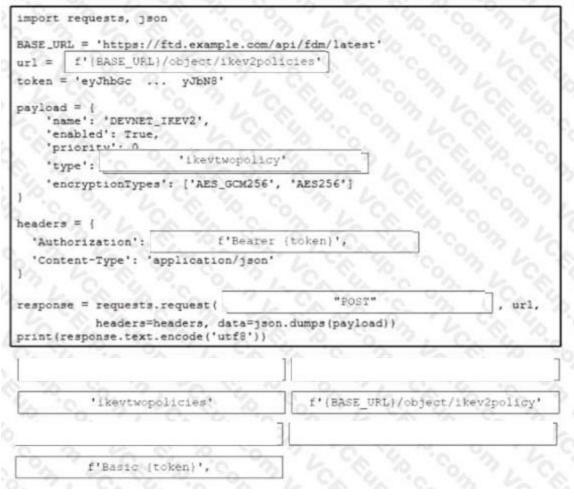
QUESTION 160

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to create a new IKEv2 policy Not all options are used







U-dumps

Section:

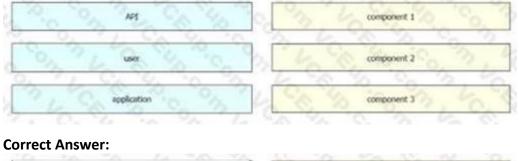
Explanation:

QUESTION 161

DRAG DROP

Drag and drop the components from the left into the order on the right to create the flow of the three-legged OAuth2.

Select and Place:



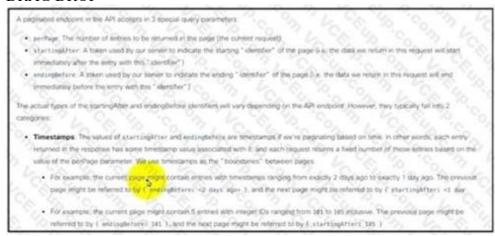


Section:

Explanation:

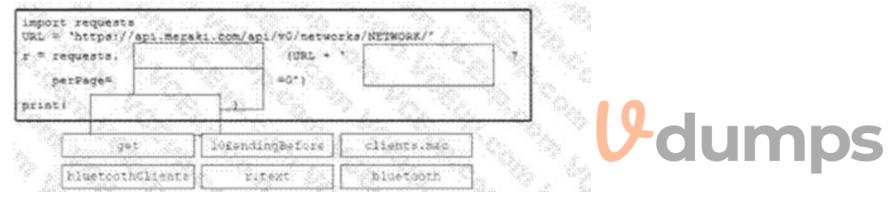
QUESTION 162

DRAG DROP

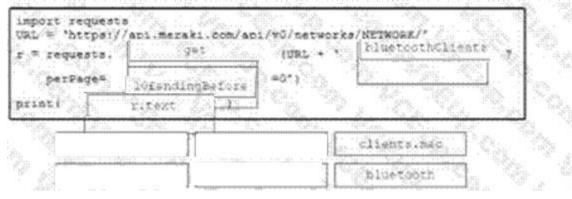


Refer to the exhibit Drag and drop the code from the bottom onto the box where the code is missing to query the last 10 Bluetooth clients seen by APs in their network using the Meraki Dashboard API Not all options are used.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 163

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to construct a contact tracking application that dynamically returns all the Bluetooth clients on a given Meraki network. Not all options are used.

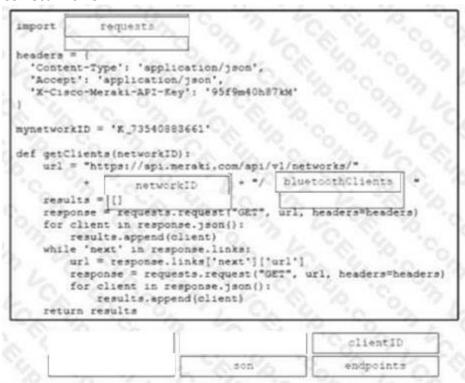


son

endpoints

Correct Answer:

networkID



Section:

Explanation:

QUESTION 164



```
response = requests.get(url, auth= (username, password))

print("Invalid credentials. Please login again")
username, password = get_credentials()
response = requests.get(url, auth= (username, password))
```

Which code snippet must be added to the blank in the code to automate the evaluation and handling of errors due to wrong credentials when Basic Authorization is used?

while response.get.status_code == 404 :

while response.status_code == 403 :

while response.status_code == 401 :

while response.get.status_code == 400 :

Correct Answer: C Section:

QUESTION 165

A developer needs to build a new Docker image and has created a tag by using the command: \$ docker tag 32df423320458 local/app.1.2

Which command must be executed next to build the Docker image using the tag?

A.

D.

\$ docker run -p local/app:1.2

В.

\$ docker run -t local/app:1.2

C.

\$ docker build -t local/app:1.2

D.

dumps

\$ docker build -p local/app:1.2

Correct Answer: C

Section:

QUESTION 166

Refer to the exhibit.

A developer created a Python script to retrieve interface information for the devices in a MeraKi network environment. A security analyst has reviewed the code and observed poor secret storage practices. What is the appropriate password storage approach?

- A. Set the Base64 encoded version of the API key as MER_API_KEY in the code and Base64 decode before using in the header.
- B. Set an OS environment variable for MER_API_KEY to the API key during running the code and longer set MER_API_KEY within the code.
- C. Create a secret for the API key, set MER_API_KEY using the value from the secret in the Pod. and no longer set MER_API_KEY within the code.
- D. Leverage an external secret vault to retrieve MER API KEY and embed the vault key as a new variable before running the code.

Correct Answer: D

Section:

QUESTION 167

Which action enhances end-user privacy when an application is built that collects and processes the location data from devices?

- A. Pepper the MAC address for each device.
- B. Salt the MAC address for each device.
- C. Implement an algorithmic information theoretic loss to the MAC address for each device.
- D. Use the network device serial number to encrypt the MAC address for each device.

Correct Answer: C

Section:

QUESTION 168

```
A.

| url="http://"+device+":"+port"/api/running/
| interfaces/interface/name" |
| url="http://"+device+":"+port"/api/running/
| interfaces/interface" |
| url="http://"+device+":"+port+"/api/running/
| interfaces" |
| url=http://"{device_list}+{port}/api/running/
| interfaces" |
```

Correct Answer: B Section:

QUESTION 169

A new record-keeping application for employees to track customer orders must be deployed to a company's existing infrastructure. The host servers reside in a data center in a different country to where the majority of users work. The new network configuration for the database server is: •IP:

10.8.32.10

- Subnet Mask: 255.255.255.0
- Hostname: CustOrd423320458-Prod-010
- MAC: 18-46-AC-6F-F4-52.

The performance of the client-side application is a priority due to the high demand placed on it by employees. Which area should the team consider in terms of impact to application performance due to the planned deployment?

- A. jitter
- B. decreased bandwidth
- C. latency
- D. connectivity loss

Section:

OUESTION 170

An application requires SSL certificates signed by an intermediate CA certificate. The crt files must be available to the application:

- The root CA certificate is root certrficate.crt.
- The intermediate CA certificate is intermediate certificate.crt
- The application-specific SSL certificate is crt_certificate.crt.

Which Bash command outputs the certificate bundle as a .pern file?



Correct Answer: D

Section:

QUESTION 171

```
from http.server import HTTPServer, BaseHTTPRequestMandler
import json

class MainHandler(BaseHTTPRequestMandler):
    def do_GET(self):
        users = get_users()
        self.send_response(200)
        self.wfile.write(json.dumps(users).encode("utf-8"))
        self.end_headers()

if __name__ == "__main__":

def run(server_class=HTTPServer, handler_class=BaseHTTPRequestMandler):
        server_address = ('0.0.0.0', 8000)
        httpd = server_class(server_address, MainHandler)
        httpd.serve_forever()
        run()
```

Refer to the exhibit An application hosting server with the local data center is experiencing large amounts of traffic from enclusers. A developer must optimize this API server to reduce the toad on its host. What are two ways to optimize this code through HTTP cache controls? (Choose two.)

- A. Include the "ETag" header in the API response.
- B. Include the "Last-Modified" header in the API response.
- C. Include the "Content-Type" header in the API response.
- D. Leverage middleware caching and respond with HTTP code 104 m the API response
- E. Leverage middleware caching and respond with HTTP code 204 m the API response.

Correct Answer: A, B Section:

QUESTION 172

Refer to the exhibit.

```
import requests
import json

BASE_URL = 'https://api.meraki.com/api/v0'
API_KEY = '6bec40cf957de430a6f1f2baa056b99a4fac8fa0'

headers = {
    'Content-Type': 'application/json',
    'X-Cisco-Meraki-API-Key': API_KEY

url = f'(BASE_URL)/organizations/2930418/hetworks'
network_response = requests.get(url, headers=headers)

if network_response.status_code == 200:
    for network in network_response.json():

url = f'(BASE_URL)/networks/(network["id"])/olients'
    clients_response = requests.get(url, headers=headers)

if clients_response.status_code == 200:
    print(clients_response.decode("utf-8"))
```



One part of an application routinely uses the Cisco Meraki API to collate data about all clients Other parts of the application also use the Meraki API, but a single API key is used within the application The organization has approximately 4.000 clients across 30 networks Some of the application users report poor performance and missing dat a. Which two changes improve the performance of the application? (Choose two.)

- A. Check for HTTP code 429 and wait until Retry-After time before further calls are made
- B. Configure multiple API keys in the application and rotate usage of each one.
- C. Use random values in the User-Agent header when HTTP calls are made.

- D. Use fewer API calls to create a more efficient endpoint.
- E. Check API response payloads for later reuse in real time during code execution.

Correct Answer: A, B

Section:

QUESTION 173

How should logs for an application be created?

- A. Use a standard and easily configurable logging framework.
- B. Use fault-tolerant protocols.
- C. Monitor for backlogs and outages.
- D. Filter sensitive data before transmitting logs.

Correct Answer: A

Section:

QUESTION 174

Which approach is used to protect East-West API traffic?

- A. Use encryption between services
- B. Install a perimeter firewall
- C. Use a dedicated cloud connection service.
- D. Implement an API gateway

Correct Answer: A

Section:

U-dumps

QUESTION 175

A developer creates an application for a Cisco Catalyst 9000 switch in a Docker container. Which action must be taken to host the application on the switch?

- A. Copy the application code to a NETCONF file and upload the file to the switch
- B. Connect the switch to Cisco DNA Center and push the application through the platform.
- C. Use the Cisco IOxClient tool to export the application to a ZIP file and push the file to the switch
- D. Export the application as a TAR file and import the file to the switch

Correct Answer: D

Section:

QUESTION 176

```
import requests
import time
import json
class Connection:
   def __init__(self, config):
       self._config = config
       self._session = None
       self._retries = 0
       self._MAX_RETRIES = 12
   def _setupSession(self):
       self._retries = 0
       if self._session is None:
           self._session = requests.Session()
   def get(self, url, params=None)
       self._setupSession()
       resp = self._session.get(self._config.host + url, verify=Palse, params=params)
       if resp.status_code == 200:
           return json.loads(resp.content.decode('utf-8'))
           self._retries += 1
           exp_backoff = (2**(self._retries+3))/1000
            time.sleep(exp_backoff)
           self.get(url=url, params=params)
```

A network engineer must integrate error handling tor time-outs on network devices using the REST interface. Which line of code needs to be placed on the snippet where the code is missing to accomplish this task?

- A. elif resp.status code == 429 or serf. retries < selff. MAX RETRIES:
- B. elif resp. status code == 404 or self, retries < self. MAX RETRIES:
- C. elif resp.status_code == 429 and self .retries < self._MAX_RETRIES:
- D. elif resp.status code == 404 and self. relries < self. MAX_RETRIES:



Correct Answer: C

Section:

QUESTION 177

Two Elasticsearch database servers use bidirectional asynchronous data replication Both servers accept writes from clients The design must meet these requirements:

- The cluster must survive if a fault occurs that causes the network connection to go down between nodes
- The data must remain consistent if communication between nodes fails.
- The data must be spread evenly across all nodes in the cluster.

Which design approach must be used to meet the requirements?

- A. Set the initial voting configuration to force a specific node as the master.
- B. Scale the master nodes down to a single node.
- C. Set the minimum master nodes to 2 in the configuration.
- D. Add a third cluster node to provide majority votes.

Correct Answer: C

Section:

QUESTION 178

```
Running on runner-kzy3auq6-project-2-concurrent-0 via d277177ad901...
Getting source from Git repository
Petching changes with git depth set to 50...
Reinitialized existing Git repository in /builds/pod01/nxos_cicd/.git/
Checking out 140cb64b as master ...
Skipping Git submodules setup
Executing "step_script" stage of the job script 
# ansible-playbook --syntax-check -1 hosts site.yml
ERROR! We were unable to read either as JSON nor YAML, these are the errors we got from each:
JSON: Expecting value: line 1 column 1 (char 0)
Syntax Error while loading YAML.
did not find expected '-' indicator
The error appears to be in '/builds/pod01/nxos_cicd/roles/spine/tasks/main.yml': line 5, column 3, but may
be elsewhere in the file depending on the exact syntax problem.
The offending line appears to be:
  - name: ENABLE FEATURES
  cisco.nxos.nxos_feature:
   here.
Cleaning up file based variables
ERROR: Job failed: exit code 1
```

A network engineer developed an Ansible playbook and committed it to GitLab. A GitLab CI pipeline is started but immediately fails. What is the issue?

- A. The runner task uses an incorrect parameter.
- B. The Ansible playbook task has a formatting issue.
- C. The Ansible playbook has an undefined variable.
- D. The runner is running the wrong Docker version.

Correct Answer: B Section:

QUESTION 179

```
container protocols {
    description
        "The routing protocols that are enabled for this network-instance.";

list protocol {
        key "identifier name";

        description
        "A process (instance) of a routing protocol. Some systems may not support more than one instance of a particular routing protocol";

leaf identifier {
        type leafref {
            path "../config/identifier";
        }
        description
        "The protocol name for the routing or forwarding protocol to be instantiated";

leaf name {
        type leafref {
            path "../config/name";
        }
        description
        "An operator-assigned identifier for the routing or forwarding protocol.
        For some processes this leaf may be system defined.";

uses network-instance-top;
```



Refer to the exhibit. Which URI string retrieves configured static routes in a VRF named CUSTOMER from a RESTCONF-enabled device?

A.

```
/restconf/data/\
openconfig-network-instance:network-instances/\
network-instance/=CUSTOMER/protocols/protocol=STATIC
```

```
B.

/restconf/data/letf-interfaces:interfaces/\
interface/GigabitEthernet1

C.

/restconf/data/\
openconfig=network-instance:network-instances/\
network-instance/CUSTONER/protocols/protocol/\
STATIC,DEFAULT

D.

/restconf/data/\
openconfig=network-instance:network-instances/\
network-instance=/CUSTOMER/protocols/protocol/STATIC
```

Section:

QUESTION 180

Refer to the exhibit.

```
Running with gitlab-runner 12.9.0-rc1 (a350f628)
  on docker-auto-scale fa6cab46
Preparing the "docker+machine" executor
00:14
Using Docker executor with image alpine: 3.10 ...
 Pulling docker image alpine: 3.10 ...
Using docker image
sha256:5e35e350aded98340bc8fcb0ba392d809c807bc3eb5c618d4a0674d98d88bccd for
alpine:3.10...
S eval "SCI_PRE_CLONE_SCRIPT"
                 refs/pipelines/125695607 -> refs/pipelines/125695607
development -> origin/development
 * [new ref]
                                            -> origin/development
 * [new branch]
Checking out 65702af3 as development...
Skipping Git submodules setup
Restoring cache
00:01
Downloading artifacts
00:02
Running script from Job
00:01
5 python3 --version
 /usr/bin/bash: line 94: python3: command not found
Running after script
00:02
Uploading artifacts for failed job
ERROR: Job failed: exit code 1
```

U-dumps

Which action resolves the error for the GitLab CI/CD pipeline execution?

- A. Download the correct artifacts by specifying them in GitLab.
- B. Use the python:3.9.0a4-alpine3.10 Docker image
- C. Install the missing python libraries via pip3.
- D. Add the absolute path to the python3 executable

Correct Answer: B Section:

QUESTION 181

Refer to the exhibit.

```
import requests
url = "https://ios-xe-mgmt.cisco.com:9443/restconf/data/Cisco-IOS-XE-native:native"
headers = {'Authorization': 'Basic 2GV2ZWxvcGVyOkMxc2NvMTIzNDU='}
response = requests.get(url, headers=headers, verify=False)
if response.status_code in [500, 501, 502, 503, 504]:
    print(
```

An engineer is implementing the response for unrecoverable REST API errors. Which message needs to be placed on the snippet where the code is missing to complete the print statement?

- A. "Error; The server is unable to handle your request." "Error:
- B. The data requested has not been found."
- C. "Error: The rate limit has been exceeded for sending API requests at this time"
- D. "Enor: The server requires authentication to complete this request."

Correct Answer: A

Section:

QUESTION 182

Refer to the exhibit.

```
Started POST "/users/auth/ldapmain/callback" for 172.17.4.98 at 2021-02-11 21:06:47 +0000
2021-02-11_21:06:49.80956 127.0.0.1 - - [11/Feb/2021:21:06:49 UTC] "GET /sidekig HTTP/1.1" 200
2021-02-11_21:06:49.80959 - -> /sidekiq
("severity": "ERROR", "timestamp": "2021-02-11721:06:52.8132", "pid": 20966, "progname": "omniauth",
  "message": "(Idapmain) Authentication failure! Idap_error: Net::LDAP::Error, Connection timed out
  user specified timeout")
Processing by OmniauthCallbacksController#failure as HTML
  Parameters: {"utf8"=>"√", "authenticity_token"=>"[FILTERED]", "username"=>"userl".
"password"=>"[FILTERED]"]
Redirected to http://192.168.24.55/users/sign in
Completed 302 Found in 119ms (ActiveRecord: 32.9ms | Elasticsearch: 0.0ms | Allocations: 40775)
 "method": "POST", "path": "/users/auth/ldapmain/callback", "format": "html", "controller":
 "OmniauthCallbacksController", "action": "failure", "status":302, \
"location": "http://192.168.24.55/users/sign_in", "time": "2021-02-11T21:06:52.934Z",
  "params": [{"key": "utf8", "value": "/"}, \
  ["key": "authenticity_token", "value": "[FILTERED]"], ["key": "username", "value": "userl"],
  ["key": "password", "value": "[FILTERED]"]], \
  "remote ip":"172.17.4.98", "user_id":null, "username":null, "ua":"Mozilla/5.0
  "redis_shared_state_read_bytes":109, "redis_shared_state_write_bytes":85, "db_count":5, \
  "db_write_count":1, "db_cached_count":0, "queue_duration_s":0.008279, "cpu_s":0.11, "db_duration_s":0.03294,
  "view_duration_s":0.0, "duration_s":0.11892}
```

Recently, users have reported problems logging into an application with their usernames and passwords. The logs have captured an authentication attempt. Based on the messages and errors contained, what is the cause of the problem?

- A. The sign-in redirection is sending clients to the wrong server for SSO.
- B. There is a time synchronization issue between the application and LDAP.
- C. Users are providing incorrect credentials when logging in.
- D. The LDAP server used for authentication fails to respond to connection requests

Correct Answer: A

Section:

QUESTION 183

What are two benefits of using a centralized logging service? (Choose two.)

- A. reduces the time required to query log data across multiple hosts
- B. reduces the loss of logs after a single disk failure
- C. improves application performance by reducing CPU usage
- D. improves application performance by reducing memory usage
- E. provides compression and layout of log data

Correct Answer: A, E

Section:

D.

QUESTION 184

Refer to the exhibit. A developer wants to automatically deploy infrastructure for a containerized application. A .gitlab-ci.yml file must describe a pipeline that builds a container based on a supplied Dockerfile and executes an Ansible playbook on the configured container. What must be added where the code S missing to complete the script?

```
image: docker:19.03.1
 services:
   - name: docker:19.03.1-dind
  - build container
    get_config
 variables:
 DOCKER_DRIVER: overlay2
 DOCKER TLS CERTDIR: ""
 ANSIBLE_HOST_KEY_CHECKING: "False"
                                                                            dumps
Build container and install Dependencies:
 stage: build container
 before script:
    - docker info
    - docker login registry.gitlab.com -u "$DOCKER_USERNAME"
  - docker build . -t registry.gitlab.com/SDOCKER_USERNAME/SDOCKER_REPOSITORY
    - docker run -t -d --rm --name nettest registry.gitlab.com/
    SDOCKER_USERNAME/SDOCKER_REPOSITORY
    - docker commit nettest registry.gitlab.com/SDOCKER REPOSITORY
 after_script:
Connect to Cisco Sandbox and backup config:
 image: registry.gitlab.com/SDOCKER_USERNAME/SDOCKER_REPOSITORY
 stage: get_config
    - ansible-playbook gather and process configs.yml -i inventory
```

docker assign nettest
registry.gitlab.com/DOCKER USERNAME/SDOCKER REPOSITORY

B.

docker info registry.gitlab.com/\$DOCKER REPOSITORY

C.

docker logout registry.gitlab.com

docker push registry.gitlab.com/ #DOCKER USERNAME/#DOCKER REPOSITORY

Correct Answer: D

Section:

QUESTION 185

A developer must deploy a containerized application for network device inventory management. The developer sets up a Kubernetes cluster on two separate hypervisors The SLA is not currently meeting a specified maximum value for network latency/jitter. CPU/memory and disk 1,0 are functioning property.

Which two design approaches resolve the issue? (Choose two.)

- A. Upgrade the server NIC card.
- B. Colocate services in the same pod.
- C. Enable IPv6 within the cluster
- D. Replace the HDD drives with SSD drives.
- E. Deploy the cluster to a bare metal server.

Correct Answer: A, B

Section:

QUESTION 186

A developer IS deploying an action to automate the configuration and management of Cisco network switches and routers. The application must use REST API interlace to achieve programmability. The security team mandates that the network must be protected against DDoS attacks. What mitigates the attacks without impacting genuine requests?

- A. traffic routing on the network perimeter
- B. firewall on the network perimeter
- C. API rate limiting at the application layer
- D. IP address filtering at the application layer

Correct Answer: B

Section:

QUESTION 187

Which kind of API that is used with Cisco DNA Center provisions SSIDs, QoS policies, and update software versions on switches?

- A. Event
- B. Multivendor
- C. Integration
- D. Intent

Correct Answer: A

Section:

QUESTION 188

Cisco sensorBase gathers threat information from a variety of cisco products and services and performs analytics on threats. Which term describes this process?

A. consumption



- B. deployment
- C. sharing
- D. authoring

Section:

QUESTION 189

Refer to the exhibits. Which data payload completes the CURL command to run the create port object API call In Cisco Firepower Threat Defense?

```
curl -X POST \
--header "Accept: application/json" \
--header "Authorization: Bearer ${ACCESS_TOKEN}" \
--header "Content-Type: application/json" \
-d '{
    https://${HOST}:${PORT}/api/fdm/v3/object/icmpv4ports
```

Refer to the exhibits. Which data payload completes the CURL command to run the create port object API call In Cisco Firepower Threat Defense?

```
A.
```

```
"icmpv4Type": "ANY",
"name": "string",
"type": "icmpv4portobject"
```



В.

```
"description": "This is an ICMP Echo",
"icmpv4Code": "8",
"icmpv4Type": "Echo",
"isSystemDefined": true,
"name": "ICMP Echo",
"version": "2.2"
```

C.

```
"description": "string",
"icmpv4Code": "ANY_IPV4",
"icmpv4Type": "ANY",
"id": "string",
"isSystemDefined": "string",
"name": "string",
"type": "icmpv4portobject",
"version": "string"
```

D.

"description": "string",
"icmpv4Code": "ANY_IPV4",
"icmpv4Type": null,
"isSystemDefined": true,
"name": "string",
"type": "icmpv4portobject"

Correct Answer: A

Section:

QUESTION 190

Which transport layer protocol does gRPC use to retrieve telemetry information?

- A. SSH
- B. SNMP
- c. TCP
- D. HTTP/2

Correct Answer: D

Section:

QUESTION 191

A developer corrects an application bug with ID buglDa98416945110x and then installs it on a Cisco Catalyst 9300 series switch. Which command will enable the application called myapp?

A. app-hosting install appid myapp package usbflash1:myapp.tar

- B. app-hosting run re-start appid my app bugfix
- C. app-hosting activate appid myapp
- D. app-hosting start appid myapp

Correct Answer: D

Section:

QUESTION 192

Refer to the exhibit.

Cisco IOS XE switches are used across the entire network and the description that is filed for all interfaces must be configured. Which code snippet must be placed in the blank in the script to leverage RESTCONF to query all the devices in the device list for the interfaces that are present?

```
url="http://"+device+":"+port+"/api/running/
interfaces"

B.

url="http://"+device+":"+port"/api/running/
interfaces/interface"

C.

url="http://"+device+":"+port"/api/running/
interfaces/interface/name"

D.

url=http://f"{device_list}+{port}/api/running/
interfaces"
```

Correct Answer: A Section:

QUESTION 193

Refer to the exhibit.

```
def init_tracer(service):
    logging.getLogger('').handlers = []
    logging.basicConfig(format='%(message)s', level=logging.DEBUG)
    config = Config(
        config={'sampler': {'type': 'const', 'param': 1,}, 'logging': True,
        service name=service,)
    return config.initialize tracer()
base_url = 'https://sandboxdnac.cisco.com/'
            dnac = DNACenterAPI(username='devnetuser', password='Ciscol23!'
                                    base_url=base_url, version='1.3.3',
                                    verify=False)
            print ('auth passed')
        except Exception as e:
            print ('failed')
        devices = dnac.devices.get_device_list()
        devices = devices['response']
        devices = [device['hostname'] for device in devices]
        print (devices)
    except Exception as e:
```

An application is created to serve the needs of an enterprise. Slow performance now impacts certain API calls, and the application design lacks observability. Which two commands improve observability and provide an output that is similar to the sample output? (Choose two.)

```
A.

dnac-tracer3 = init_tracer('dnac-tracer3')

B.

with dnac-tracer3.start_span('dnac-api-calls') as span:

C.

with tracer.start_span('dnac-api-calls') as span:

D.

dnac-tracer3.start_span('dnac-api-calls') as span:

E.

tracer = init_tracer('dnac-tracer3')
```

Correct Answer: C, E Section:

QUESTION 194

Refer to the exhibit.

```
backoff = 5
time.sleep(int(backoff))
response = requests.post(url)
while response.status_code != 200 and backoff < 80:
    backoff *= 2
    time.sleep(int(backoff))
    response = requests.post(url)
else:
continue</pre>
```

An engineer needs to implement REST API error handling when a timeout or rate limit scenario is present. Which code snippet must be placed into the blank in the code to complete the API request?

A.

```
if response.status_code == 429:
    wait = response.headers.get('Retry-After', 99)
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')
    time.sleep(int(wait))
    response = requests.post(url)
elif response.status_code == 408:
```

В.

```
if response.status_code == 401:
    wait = response.headers.get('Retry-After', 99)
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')
    time.sleep(int(wait))
    response = requests.post(url)
elif response.status_code == 408;
```

C.

```
if response.status_code == 408:
    wait = response.headers.get('Retry-After', 99)
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')
    time.sleep(int(wait))
    response = requests.post(url)
elif response.status_code == 429:
```

D.

```
if response.status_code == 429:
    wait = response.headers.get('Retry-After', 99)
    print(f'-> got {response.status_code} from {url}. retrying after {wait}s')
    time.sleep(int(wait))
    response = requests.post(url)
elif response.status_code == 401:
```

Correct Answer: A

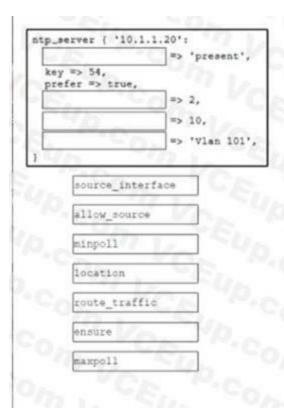
Section:

QUESTION 195

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing to create a Puppet manifest that implements an NTP configuration when applied to a device in the master inventory. Not all options are used.







U-dumps

Section:

Explanation:

QUESTION 196

DRAG DROP

Drag and drop the steps from the left into the order on the right to create the workflow to retrieve the gateway information from a set of Cisco IOS devices. Not all options are used.



SC1U.S	Apply the cisco_los class on each primary node.
	Apply the cisco_jos class on each Puppet agent.
	Run the puppet agent -t command on each primary.
1 - 1 h - 1 - 1 - 1 - 1	Run the puppet agent -t command on each agent.
10 1 50.	Run the puppet devicetarget disco.example.comresource gateway command.
Apply the cisco_ios class on each proxy Puppet agent.	



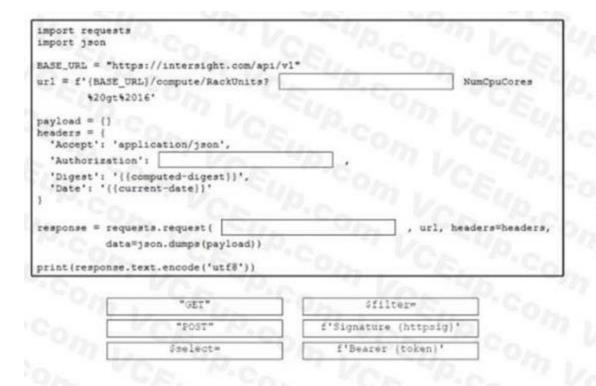
Section:

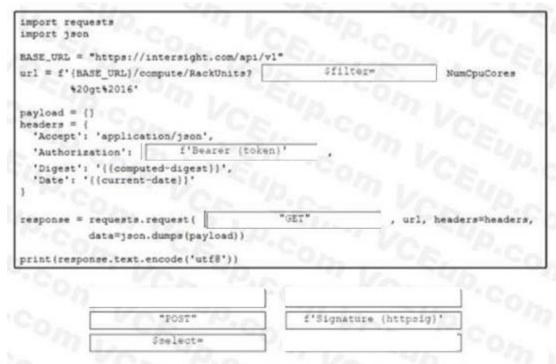
Explanation:

QUESTION 197

DRAG DROP

Drag and drop the code from the bottom onto the box whore the code is missing to retrieve a list of rack units that have more than 16 CPU cores. The filtered list will be used to create a summary on the monitoring dashboard. Not all options are used.







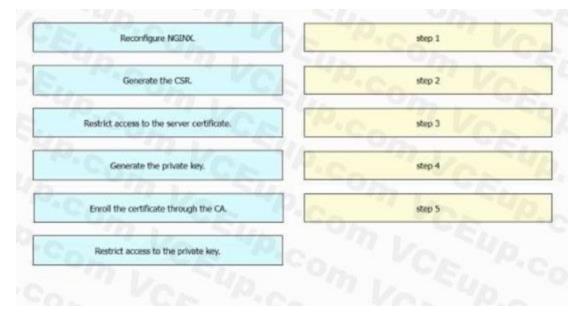
Section:

Explanation:

QUESTION 198

DRAG DROP

An engineer has created an NGINX web server. The server will be accessible from outside the organization. A public-key certificate must be installed before external access is allowed Drag and drop the steps from the left into the order on the right to configure the certificate. Not all options are used



	Restrict access to the private key.
Restrict access to the server certificate.	Generate the CSR.
	Enroll the certificate through the CA.
P	Reconfigure NGENOC



Section:

Explanation:

QUESTION 199

An engineer needs to automate the configuration on a Cisco NX-OS switch. The solution must meet these requirements:

- Ansible is used
- The transport protocol is encrypted
- Support for Asynchronous requests.

Which two access mechanisms must be used? (Choose two.)

- A. SNMP Version 2c
- B. NETCONF
- c. NX-API
- D. HTTPS
- E. JSON-RPC

Correct Answer: B, D

Section:

