

DevNet Associate (DEVASC)



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QUESTION 1

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: https://owasp.org/www-project-top-ten/OWASP_Top_Ten_2017/Top_10-2017_A1- Injection

QUESTION 2

Refer to the exhibit.

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

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 3

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

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

Correct Answer: CE

Explanation

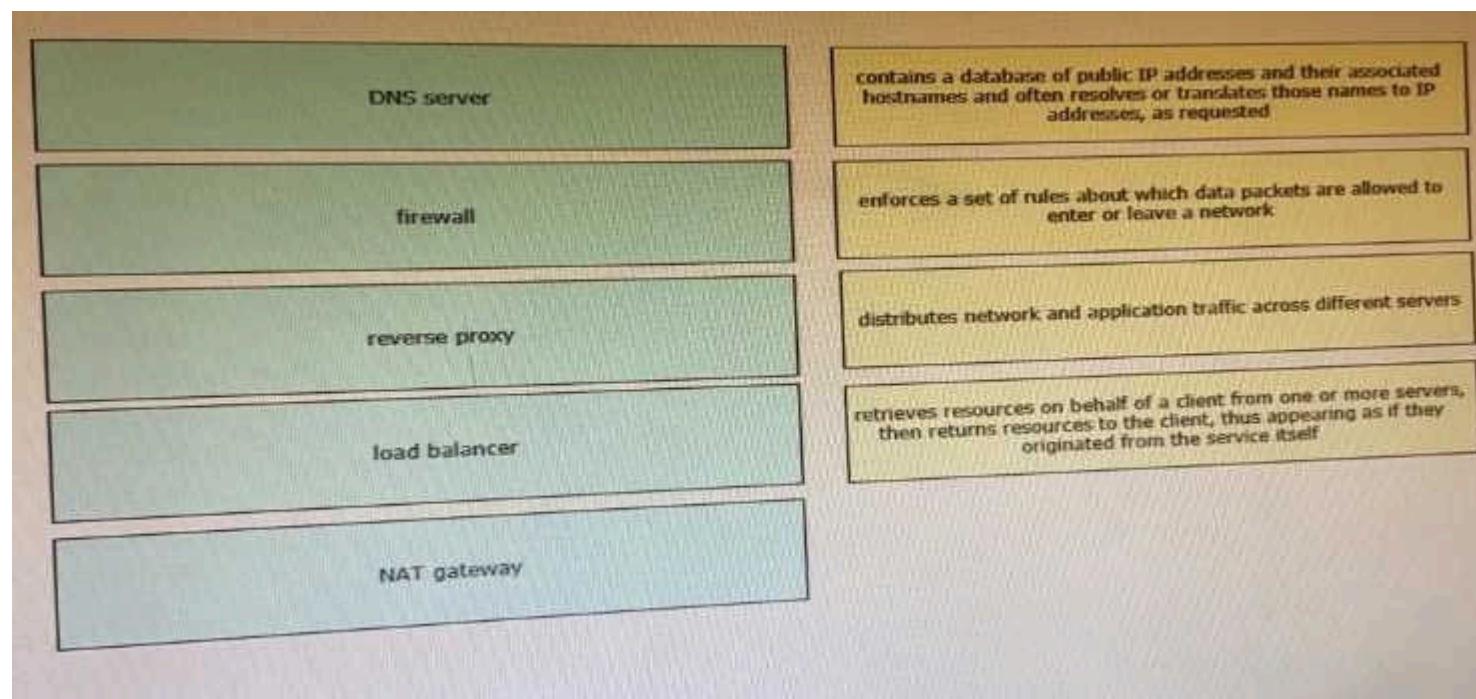
Explanation/Reference:

Explanation:

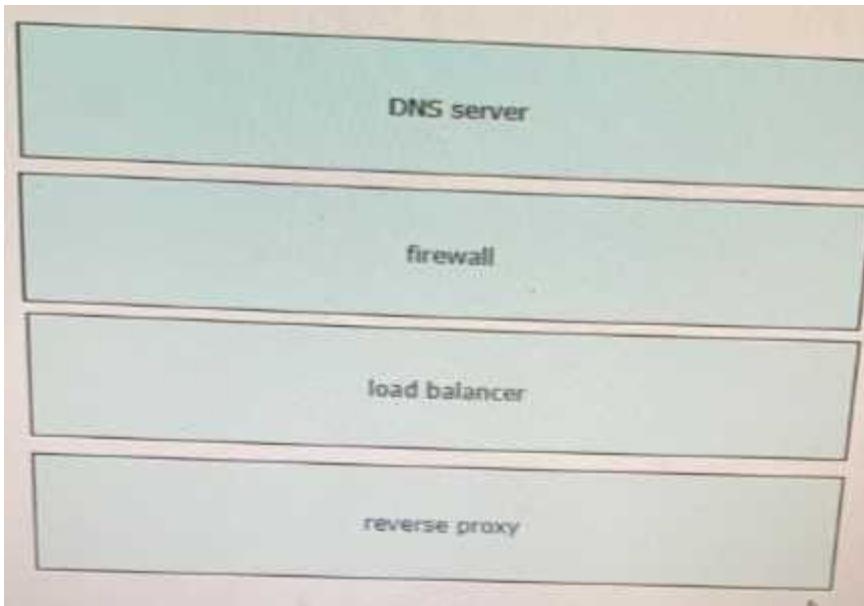
QUESTION 4

DRAG DROP

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



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



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 5

What is the purpose of the Cisco VIRL software tool?

- A. To verify configurations against compliance standards
- B. To simulate and model networks
- C. To automate API workflows
- D. To test performance of an application

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.speaknetworks.com/cisco-virl-better-gns3/>

QUESTION 6

Which detail is included in a routing table?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://geek-university.com/ccna/routing-table-explained/>

QUESTION 7

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

```
import requests
url = "https://myDNAsServer/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWlOiI1ZDE0OWZkMjH2TY2
MmQ3NGM5YzE5ZTliLmYzMCIslmV4cCl6MTU3MjM3ODE5MCwidXNlcmt5hbWUiOiJraX
N371274739_zhK5LPQd501ZUpZl0IH_qrgOXttnbxSFFF7JOEtRis'
}
response = requests.request( [REDACTED] , url,
headers = [REDACTED] , data = [REDACTED] )
print(response.text.encode('utf8'))
```

- A. headers, payload

Explanation:

Explanation:

Solution as below.

```
import requests
url = "https://myDNAserver/dna/intent/api/v1/network-device"
payload = {}
headers = {'x-auth-token': 'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWliOiIzZDE0OWZkMjhIZTY2
MmQ3NGM5YzE5ZTilMzMClsmV4cCl6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraX
N371387657_zhK5LPQd501ZUpZl0IH_qrgOXtlnbxSFFF7JOEtRls'
}
response = requests.request("GET", url, headers=headers, data=payload)
print(response.text.encode('utf8'))
```

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 8

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

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 9

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

- A. Data sets
- B. Scrolling

- C. Blobs
- D. Pagination

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://nordicapis.com/everything-you-need-to-know-about-api-pagination/>

QUESTION 10

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

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.atlassian.com/git/tutorials/using-branches/git-merge>

QUESTION 11

Refer to the exhibit.

```
[  
  {  
    "type": "fruit",  
    "items": [  
      {  
        "color": "green",  
        "items": [  
          "kiwi",  
          "grape"  
        ]  
      },  
      {  
        "color": "red",  
        "items": [  
          "strawberry",  
          "apple"  
        ]  
      }  
    ]  
,  
  {  
    "type": "vegs",  
    "items": [  
      {  
        "color": "green",  
        "items": [  
          "lettuce"  
        ]  
      },  
      {  
        "color": "red",  
        "items": [  
          "tomato"  
        ]  
      }  
    ]  
  }  
]  
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```

A REST API retune this JSON output for a GET HTTP request, Which has assigned to a variable called "vegetables" Using python, which output is the result of this command?

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 12

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

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://community.cisco.com/t5/application-centric/apic-rest-api-produces-inconsistent-response/td-p/2758230>

QUESTION 13

What is the purpose of a MAC address?

- A. To uniquely identify a router in a LAN
- B. To uniquely identify a network interface in a LAN

- C. To uniquely identify a device on the internet
- D. To uniquely identify a switch in a LAN

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 14

Which way should be used to safely the API keys?

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 15

Refer to the exhibit.

URL: `https://<ASA_IP>/api/access/global/rules`

Method: POST

Payload:

```
{  
    "destinationAddress": {  
        "kind": "IPv4Address",  
        "value": "10.1.1.1"  
    },  
    "remarks": [ ],  
    "active": true  
    "permit": true,  
    "sourceAddress": {  
        "kind": "IPv4Address",  
        "value": "192.168.1.1"  
    }  
}
```

Response Status Code: 400 Bad Request

```
{"messages": [{"level": "Error", "code": "JSON-PARSE-ERROR", "details": "  
    Unexpected character ('\" (code 34)):"}]}
```

What caused the error in this API request?

- A. The API resource does not support the POST operation
- B. The API resource does not support JSON format payloads.

- C. The submitted JSON payload includes a field that is not supported by the API resource.
- D. The submitted JSON payload has a formatting issue

Correct Answer: D

Explanation

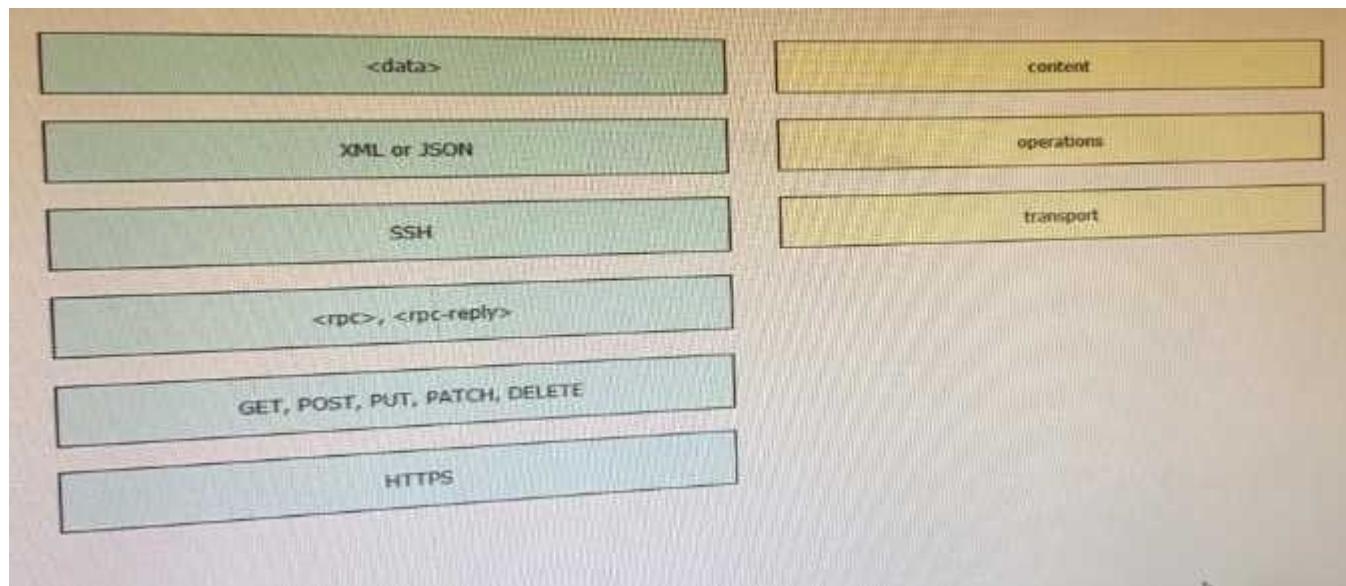
Explanation/Reference:

Explanation:

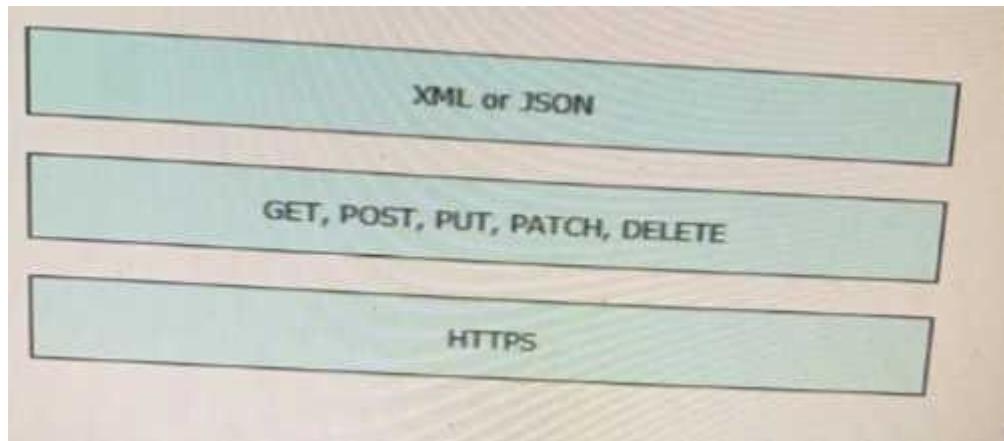
QUESTION 16

DRAG DROP

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



- A. Explanation:



1 B, 2 E, 3 - F

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b_169_programmability_cg/restconf_programmable_interface.html

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 17

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

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

Correct Answer: DE

Explanation

Explanation/Reference:

Explanation:

QUESTION 18

Which description of a default gateway if true?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Ref

<https://www.certificationkits.com/cisco-certification/ccna-articles/cisco-ccna-intro-to-routing-basics/cisco-ccna-default-gateway-a-default-routes/>

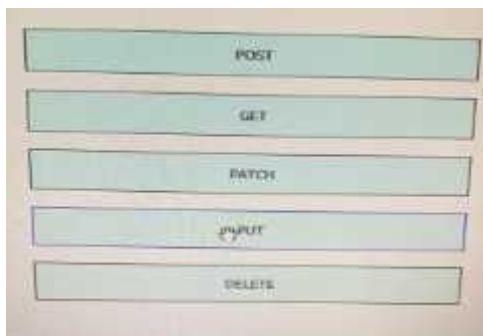
QUESTION 19

DRAG DROP

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

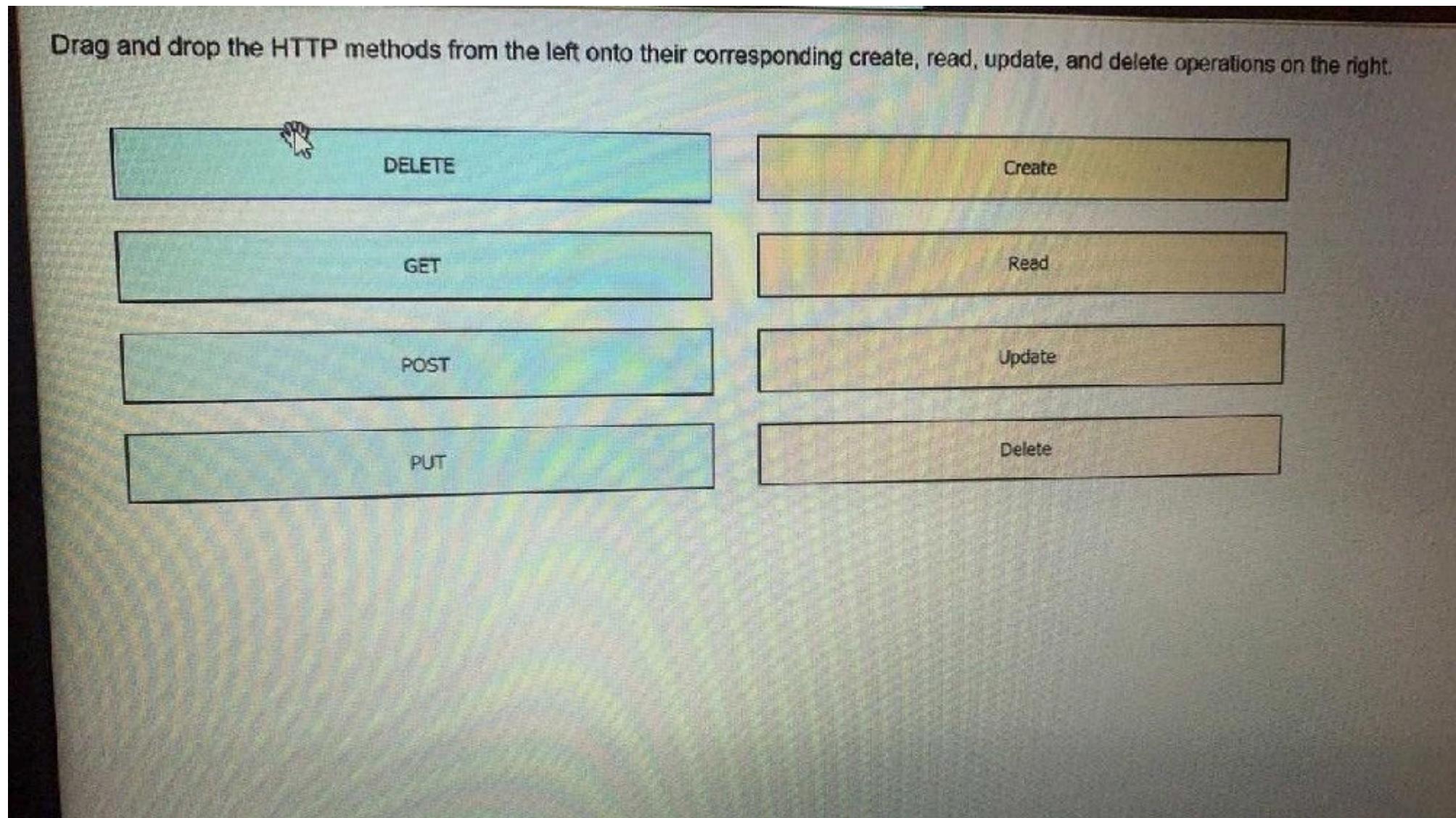
DELETE	Create
GET	Read
PATCH	Update
POST	Update
PUT	Delete

A. 1 D, 2 B, 3 C, 4 E, 5 A



Reference: https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/application-policy-infrastructure-controller-enterprise-module/1-2-x/config-guide/b_apic-em_config_guide_v_1-2-x/b_apic-em_config_guide_v_1-2-x_chapter_01001.pdf

OR



Answer :
Post

Get
Put
Delete

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 20

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

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

Correct Answer: CD

Explanation

Explanation/Reference:

Explanation:

QUESTION 21

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 22

Refer to the exhibit.

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

What is the function of the python script?

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

Correct Answer: E

Explanation

Explanation/Reference:

Explanation:

QUESTION 23

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.atlassian.com/git/tutorials/using-branches>

QUESTION 24

On which port does NETCONF operate by default?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 25

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

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

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

QUESTION 26

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 27

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

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

- A. Answer: GET, Accept,

Authorization

Explanation:

Explanation:

See the solution below.

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

Reference:

<https://webcache.googleusercontent.com/search?q=cache:Se6d2trvMsEJ:https://blogs.cisco.com/developer/security-api-best-practices+&cd=4&hl=en&ct=clnk&gl=pk&client=firefox-b-d>

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 28

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

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

E. API Documentation

Correct Answer: CE

Explanation

Explanation/Reference:

Explanation:

Reference: <https://developer.cisco.com/>

QUESTION 29

Which platform is run directly using a hypervisor?

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 30

Which is an advantage of using network programmability?

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 31

DRAG DROP

Refer to the exhibit.

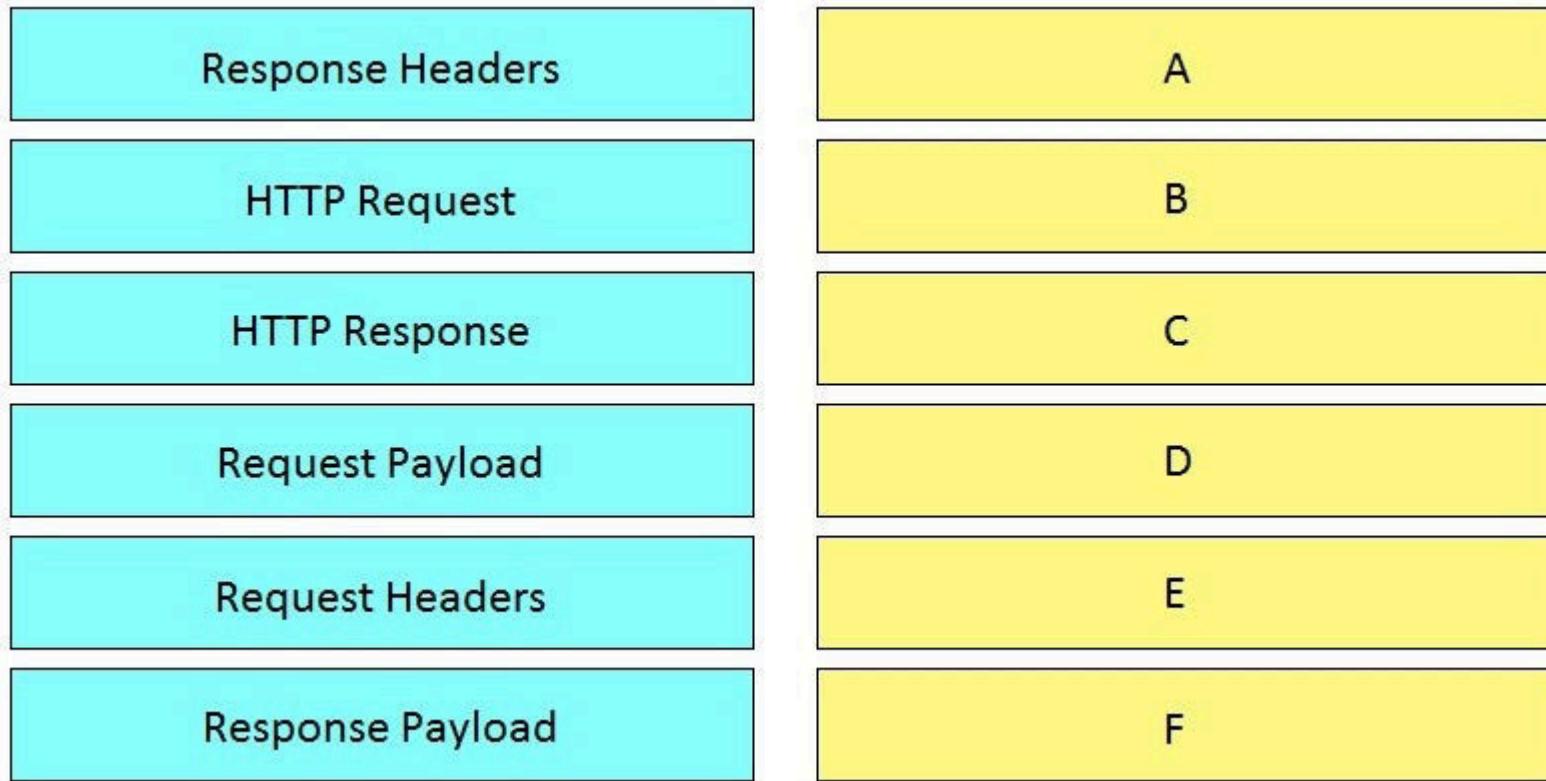
```
bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization: Bearer Fj2zykEa09lic9GK2j8LtE1HklH6oRHPQdw1Pat60i7ndtHHnWzL2b5PQmG14Kk_B9ei5ISACLY7-NarA-2n9H-tGgt-SxQ39iDejgcs" -i -d "{ \"roomId\": \"Y2geK53sjELknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QmK9LQzsPOG4\", \"text\": \"test2\" }" -X POST https://api.ciscopark.com/v1/messages
```

C

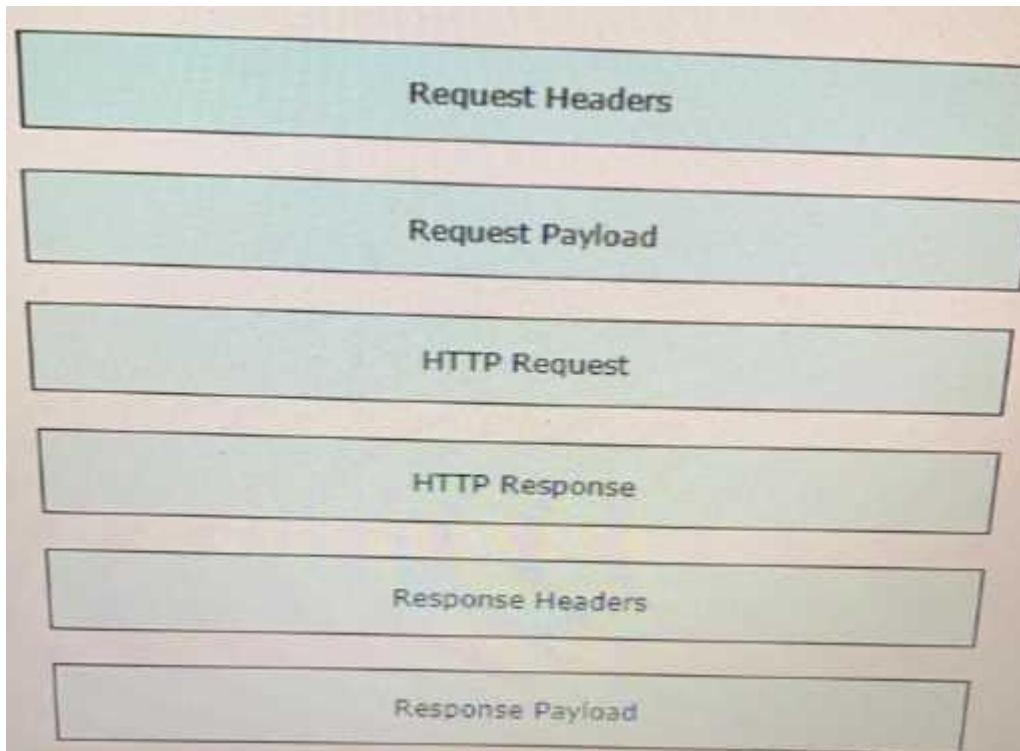
```
HTTP/1.1 200 OK
Via: 1.1 linkerd
Transfer-Encoding: chunked
TrackingID: ROUTER_5E0FE283-63EB-01BB-00ED-806BF1BD00ED
Date: Sat, 01 Jan 2020 00:55:31 GMT
Server: Redacted
Content-Type: application/json; charset=UTF-8
Vary: Accept-Encoding
Strict-Transport-Security: max-age=63072000; includedSybDomains; preload
```

```
{"id": "YCpJf3aVovyBYcbn71SdesNkKcgN5tlExdc6dcnPtl4Va05NfCh9MG17j0tWXQLoIPuoJ73uu7JdoXq9", "roomId": "Y2geK53sjELknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QmK99LQzsPOG4", "roomType": "group", "text": "test2", "personId": "YcgYzL6XgtyfW81XXwqfKf7whfj23KuqWt4kLWkbb3JWEJB1VMZoklvyDdfoppb0einNjl11FcMyy5WD", "personEmail": "user@webex.com", "created": "2020-01-01T00:55:32.492Z"}  
bash-3.2$
```

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



A.



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

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 32

Refer to the exhibit.

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

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

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 33

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://unix.stackexchange.com/questions/252927/what-do-the-numbers-in-the-line-mean-in-output-of-diff>

QUESTION 34

Which two encoding formats do YANG interfaces support?

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

Correct Answer: AB

Explanation

Explanation/Reference:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/configuration/171/b_171_programmability_cg/model_driven_telemetry.html

QUESTION 35

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

Reference: <https://realpython.com/python-requests/>

QUESTION 36

Refer to the exhibit.

URL: `https://<ASA_IP>/api/access/global/rules`
Method: POST
Payload:

```
{  
    "destinationAddress": {  
        "kind": "IPv4Address",  
        "value": "10.1.1.1"  
    },  
    "remarks": [],  
    "active": true,  
    "permit": true,  
    "sourceAddress": {  
        "kind": "IPv4Address",  
        "value": "192.168.1.1"  
    }  
}
```

Response Status Code: 400 Bad Request

```
{"messages": [{"level": "Error", "code": "JSON-PARSE-ERROR", "details": "Unexpected character ('\'' (code 34))"}]
```

What caused the error in this API request?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 37

What is the outcome of executing this command?

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

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.atlassian.com/git/tutorials/setting-up-a-repository/git-clone>

QUESTION 38

Refer to the exhibit.

```
def get_result():

    url = "https://sandboxdnac.cisco.com/dna/system/api/v1/auth/token"

    resp = requests.post(url, auth=HTTPBasicAuth(DNAC_USER, DNAC_PASSWORD))

    result = resp.json()['Token']

    return result
```

What does the python function do?

- A. It returns DNAC user and password.

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 39

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

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

Correct Answer: AD

Explanation

Explanation/Reference:

Explanation:

Reference: [https://www.dummies.com/programming/networking/cisco/types-of-network-address- translation/](https://www.dummies.com/programming/networking/cisco/types-of-network-address-translation/)

QUESTION 40

Refer to the exhibit.

```

json_string = """
{
    "researcher": {
        "name": "Ford Perfect",
        "species": "Betelgeusian",
        "relatives": [
            {
                "name": "Zaphod Beeblebrox",
                "species": "Betelgeusian"
            }
        ]
    }
}
"""

my_json = json.loads(json_string)

```

Which python data structure does my_json contain?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://stackoverflow.com/questions/34764979/loading-python-string-with-u-as-json?noredirect=1&lq=1>

QUESTION 41

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

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

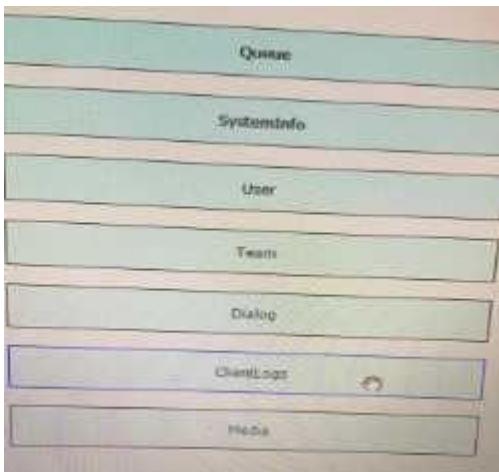
QUESTION 42

DRAG DROP

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

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

A.



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

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 43

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

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

Correct Answer: AC

Explanation

Explanation/Reference:

Explanation:

QUESTION 44

Refer to the exhibit.

```
class ucsm sdk.ucshandle.UcsHandle(ip, username, password, port=None, secure=None, proxy=None)
```

Bases: [ucsm sdk.ucssession.UcsSession](#)

[\[source\]](#)

UcsHandle class is the user interface point for any Ucs related communication.

- Parameters:**
- **ip (str)** – The IP or Hostname of the UCS Server
 - **username (str)** – The username as configured on the UCS Server
 - **password (str)** – The password as configured on the UCS Server
 - **port (int or None)** – The port number to be used during connection
 - **secure (bool or None)** – True for secure connection, otherwise False
 - **proxy (str)** – The proxy object to be used to connect

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

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

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

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

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

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 45

Refer to the exhibit.

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

Which JSON is equivalent to the XML encoded data?

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

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

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

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

A. Option A

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 46

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://developer.cisco.com/site/sandbox/>

QUESTION 47

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

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

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/rest-api-getting-started-guide/6-5/cisco-ucs-director-REST-API-getting-started-65.html

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/api/b_ucs_api_book.pdf

QUESTION 48

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

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

Correct Answer: B

Explanation:

Explanation/Reference:

Explanation:

QUESTION 49

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

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

Correct Answer: CD

Explanation:

Explanation/Reference:

Explanation:

QUESTION 50

Refer to the exhibit.

List Rooms

List rooms.

The title of the room for 1:1 rooms will be the display name of the other person.

By default, lists rooms to which the authenticated user belongs.

Long result sets will be split into [pages](#).

GET /v1/rooms

Query Parameters

Name	Description
teamId string	List rooms associated with a team, by ID.
type string	List rooms by type. <i>Possible values: direct, group</i>
sortBy string	Sort results. <i>Possible values: id, lastactivity, created</i>
max number	Limit the maximum number of rooms in the response. Default: 100

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

HTTP GET /v1/rooms []

- A. ?sortBy=lastactivity
Explanation:

HTTP GET /v1/rooms ?sortBy=lastactivity

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 51

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 52

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

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

- A. Answer: devnetuser,
requests, header
Explanation:
Explanation:
Solution as below

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

Reference: <https://developer.cisco.com/docs/apic-em/#!hello-world>

- Correct Answer:** A
Explanation

Explanation/Reference:

QUESTION 53

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

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

- Correct Answer:** BE
Explanation

Explanation/Reference:

Explanation:

QUESTION 54

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

- A.

```
def test_func(self):
    self.assertTrue(my_func())
```
- B.

```
def test_func(self):
    self.assertRaises(my_func())
```
- C.

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

```
def test_func(self):
    self.assertFalse(my_func())
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 55

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

- A. devnet & output.txt
- B. devnet > output.txt
- C. devnet < output.txt
- D. devnet | output.txt

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

Reference: <https://askubuntu.com/questions/420981/how-do-i-save-terminal-output-to-a-file>

QUESTION 56

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

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 57

What is an example of a network interface hardware address?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 58

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

- A. stateless

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://developer.cisco.com/docs/nx-os/#!representational-state-transfer-rest>

QUESTION 59

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

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

Correct Answer: A

Explanation

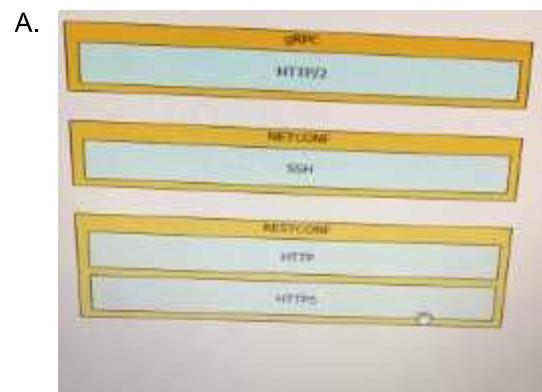
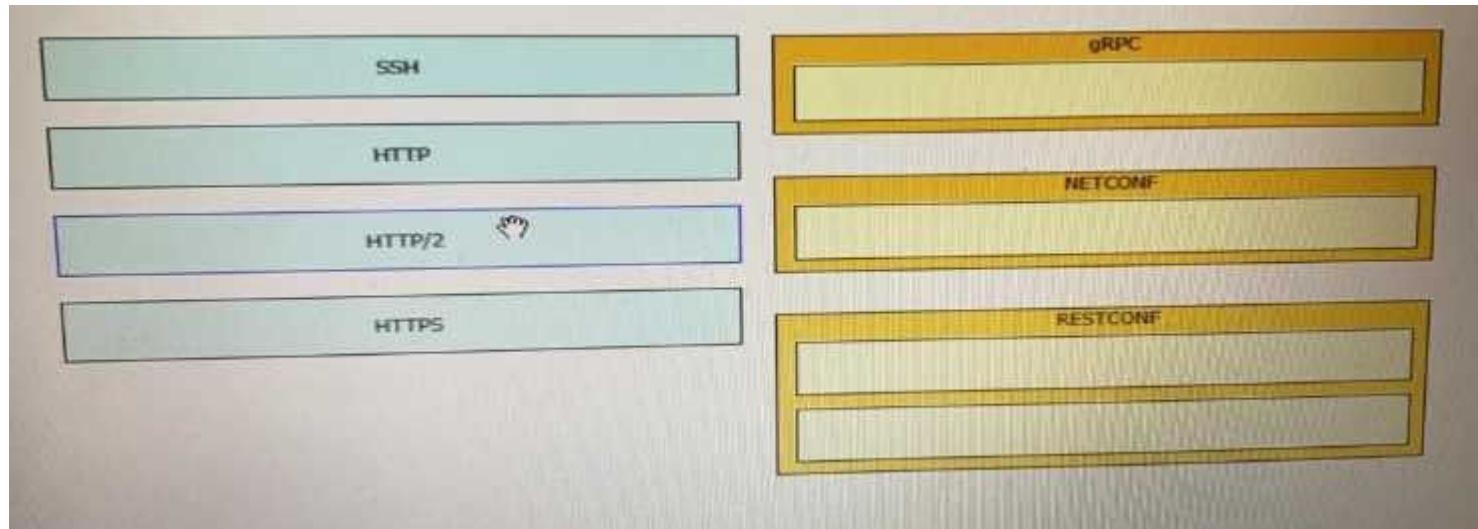
Explanation/Reference:

Explanation:

QUESTION 60

DRAG DROP

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



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



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 61

Refer to the exhibit.

List Messages

Lists all messages in a room. Each message will include content attachments if present.

The list sorts the messages in descending order by creation date.

Long result sets will be split into [pages](#).

[GET /v1/messages](#)

Query Parameters

roomId

string Required

List messages in a room, by ID.

mentionedPeople

array

List messages with these people mentioned, by ID.

Use me as a shorthand for the current API user.

before

string

List messages sent before a date and time.

beforeMessage

string

List messages sent before a message, by ID.

max

number

Limit the maximum number of messages in the response.

Cisco Written & CCIE LAB Dump, AWS, Azure, Oracle, Huawei, Aruba, Fortinet, F5 101 & F5 201, RedHat Linux, Comptia, CEHv10, Palo Alto, Check Point, EC Council and many more.

"We make sale ONLY if the dump is stable" Contact us: cciehomer@gmail.com Whatsapp +1-302-440-1843

Try it

Example

[GET /v1/messages{?roomId,mentionedPeople,before,beforeMessage}](#)

Header

Authorization

Use personal access token

Bearer 

This limited-duration personal access token is hidden for your security.

Query Parameters

roomId

Required

e.g. Y2IzY29zcGFyazovL3VzL1JPT00vYmJj

mentionedPeople

e.g. Y2IzY29zcGFyazovL3VzL1BFT18MRS6

before

e.g. 2016-04-27T9:01:55.966Z

beforeMessage

e.g. Y2IzY29zcGFyazovL3VzL1FU1NBROL

max

e.g. 100

Default: 50

Run

```
bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization: Fj2zzzykEa091ic9GK2j8LtE1HklHk1H6oRHPQdw1Pat60i7ndtHHnWzL2b5pqMg14Kk_B9EI59isacLy7-NarA02n9H-tGgt-SxQ39iDejgcs" -i -X POST -d "{\"roomId\": \"Y2geK53sjEknosrC7SwQ5ZGL99pHgiuScB7DfNvUsr8Xx4wDKLiPORcEkryAnM3QmK9LQZsP0G4\", \"text\": \"test2\" }" https://api.ciscospark.com/v1/messages

HTTP/1.1 401 Unauthorized
Via: 1.1 linkerd
TrackingID: ROUTER_5E0FDC8C-EB6F-01BB-00EF-806BF1BD00EF
Date: Sat, 04 Jan 2020 00:30:04 GMT
Server: Redacted
Content-Length: 267
Content-Type: application/json
Strict-Transport-Security: max-age=63072000; includeSubDomains; preload

{"message": "The request requires a valid access token set in the Authorization request header.", "errors": [{"description": "The request requires a valid access token set in the Authorization request header."}], "trackingId": "ROUTER_5E0FDC8C-EB6F-01BB-00EF-806BF1BD00EF"}

bash-3.2$
```

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

- A. The user is not allowed to post messages from their account
- B. The request body is missing or incomplete
- C. The API token specified is expired
- D. The authorization header is missing or incomplete

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 62

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

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

Correct Answer: CE

Explanation

Explanation/Reference:

Explanation:

QUESTION 63

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

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

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

QUESTION 64

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

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

D. The server is running out of disk space.

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 65

What should a CI/CD pipeline aim to achieve?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 66

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

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

Correct Answer: CE

Explanation

Explanation/Reference:

Explanation:

QUESTION 67

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

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

Correct Answer: C

Explanation

Explanation/Reference:

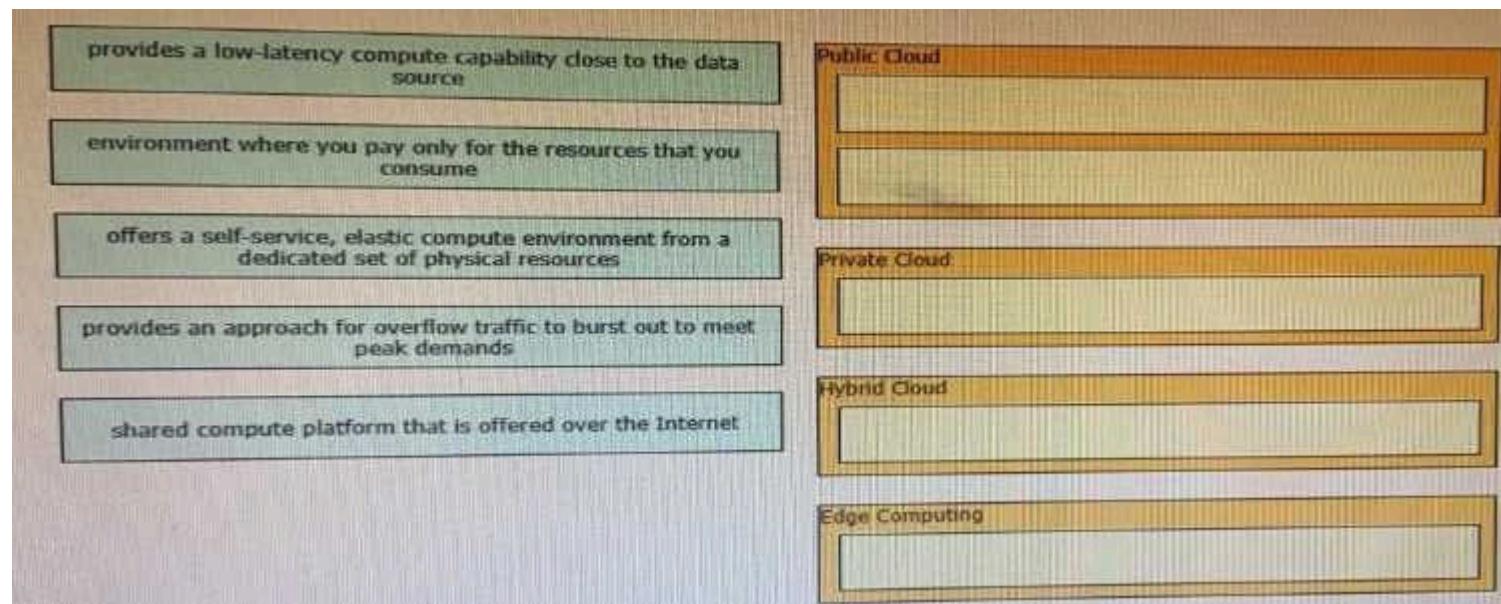
Explanation:

Reference: <https://www.infoworld.com/article/3271126/what-is-cicd-continuous-integration-and-continuous-delivery-explained.html>

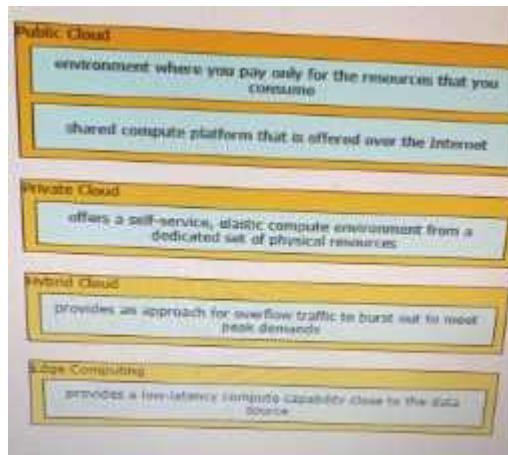
QUESTION 68

DRAG DROP

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



- A. Explanation:
1 B, 2 E, 3 C, 4 D, 5 A



Correct Answer: A

Explanation:

Explanation/Reference:

QUESTION 69

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

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

Correct Answer: AB

Explanation:

Explanation/Reference:

Explanation:

QUESTION 70

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

- A. AAA

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://ns1.com/resources/dns-types-records-servers-and-queries>

QUESTION 71

Fill in the blanks to complete the statement.

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

- A. devnet:Cisco123,

Basic

Explanation:

Explanation:

Solution as below

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

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 72

Refer to the exhibit.

```

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

$ curl --insecure -v -X PATCH \
  "https://ios-xe-mgmt-latest.cisco.com:9443/restconf/data/Cisco-IOS-XE-native:native" \
  -H 'Authorization: Basic ZGV2ZWxvcGVyOkMxc2NvMTIzNDU=' -H 'Accept: application/yang-data+json' \
  -H 'Content-Type: application/yang-data+json' \
  -d '{ "Cisco-IOS-XE-native:native" : { "logging" : { "monitor" : { "severity" : "alerts" } } } }'
> ...
< ...
< HTTP/1.1 204 No Content

```

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1611/b_1611_programmability_cg/restconf_programmable_interface.h.html

QUESTION 73

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

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

Correct Answer: AE

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/storage-networking/management/200933-YANG-NETCONF-Configuration-Validation.html>

QUESTION 74

Which product provides network controller-level management features?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.cisco.com/c/en/us/products/cloud-systems-management/index.html>

QUESTION 75

DRAG DROP

Refer to the exhibit.

HTTP REQUEST

`POST /organizations/ {organizationId}/networks`

PARAMETERS

name

The name of the new network.

type

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

tags

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

timeZone

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

copyFromNetworkId

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

disableMyMerakiCom

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

disableRemoteStatusPage

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

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

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

base_url	<item 1>
network_name	<item 2>
data	<item 3>
post	<item 4>
application/json	<item 5>
networks	<item 6>
api_key	<item 7>
organizations	<item 8>

A. 1 D, 2 A, 3 H, 4 F, 5 G, 6 E, 7 C, 8 B



Correct Answer: A

Explanation:

Explanation/Reference:

QUESTION 76

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

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

Correct Answer: D

Explanation:

Explanation/Reference:

Explanation:

Reference:

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

QUESTION 77

Which API is used to obtain data voicemail ports?

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

Correct Answer: B

Explanation

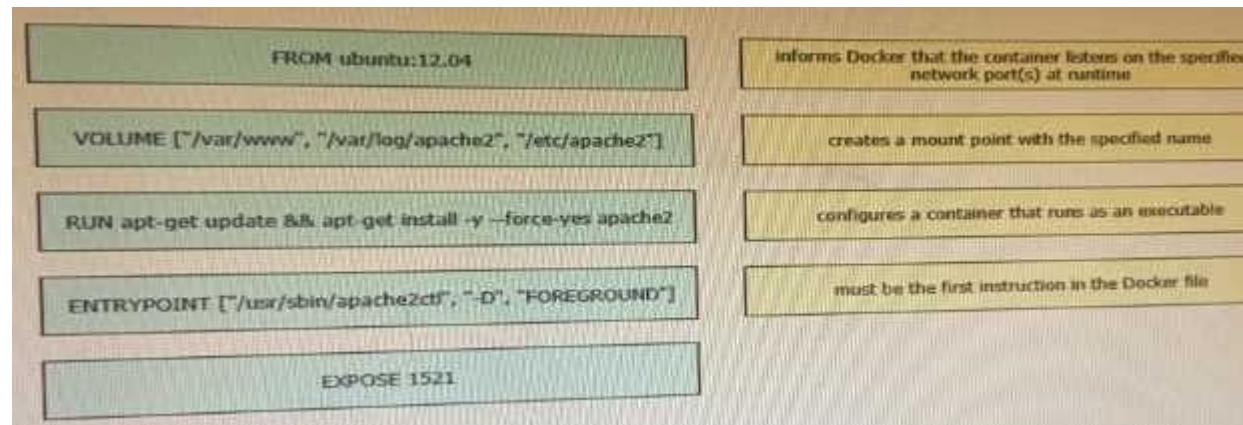
Explanation/Reference:

Explanation:

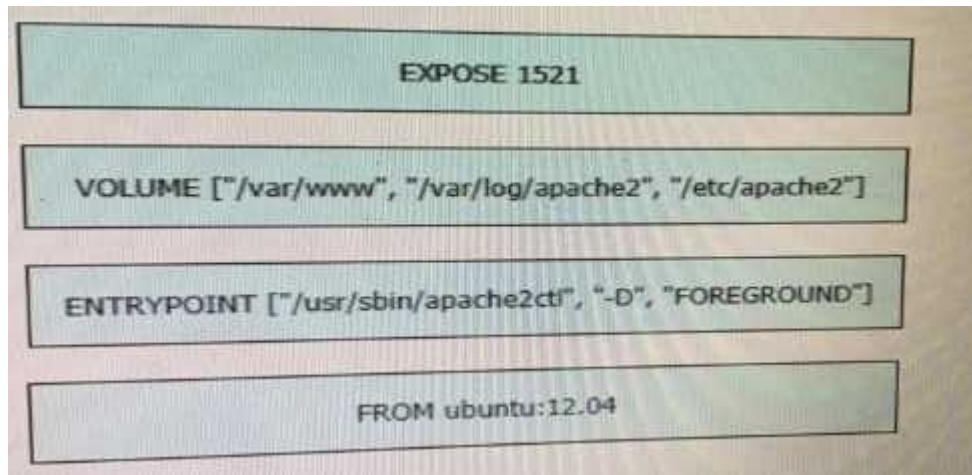
QUESTION 78

DRAG DROP

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



- A. Explanation:
1 E, 2 B, 3 D, 4 A



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 79

Refer to the exhibit.

```
$ diff -u5 fish.py cat.py
--- fish.py      2020-01-02 09:41:02.840000000 +0100
+++ cat.py       2020-01-02 09:41:06.8859999800 +0100
@@ -160,11 +160,12 @@
 
     @single_request_timeout.setter
     def single_request_timeout(self, value):
         """The timeout (seconds) for a single HTTP REST API request."""
         check_type(value, int, optional=True)
-
         assert value is None or value > 0
+
         if value is not None and value <= 0:
             raise ValueError("single_request_timeout must be positive integer")
         self._single_request_timeout = value
 
 
     @property
     def wait_on_rate_limit(self):
         """Automatic rate-limit handling.
```

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

```
file: fish.py
160
161     @single_request_timeout.setter
162     def single_request_timeout(self, value):
163         """The timeout (seconds) for a single HTTP REST API request."""
164         check_type(value, int, optional=True)
165         self._single_request_timeout = value
166
167
168
169
170
171
172
173     @single_request_timeout.setter
174     def single_request_timeout(self, value):
175         """The timeout (seconds) for a single HTTP REST API request."""
176         check_type(value, int, optional=True)
177         if value is not None and value < 0:
178             raise ValueError("single_request_timeout must be positive integer")
179         self._single_request_timeout = value
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192
193     @single_request_timeout.setter
194     def single_request_timeout(self, value):
195         """The timeout (seconds) for a single HTTP REST API request."""
196         check_type(value, int, optional=True)
197         assert value is None or value > 0
198         self._single_request_timeout = value
199
200
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211
212
213     @single_request_timeout.setter
214     def single_request_timeout(self, value):
215         """The timeout (seconds) for a single HTTP REST API request."""
216         check_type(value, int, optional=True)
217         assert value is None or value > 0
218         if value is not None and value < 0:
219             raise ValueError("single_request_timeout must be positive integer")
220         self._single_request_timeout = value
```

OR

AUTOMATIC RATE-LIMIT HANDLING

Refer to the exhibit. The output of a unified diff when comparing two versions of a Python script is shown. Which two "single_request_timeout()" functions are defined in fish.py and cat.py, where the left column indicates the line numbers of the fish.py and cat.py code listings? (Choose two.)

Line File: cat.py

```
173 @single_request_timeout.setter
174 def single_request_timeout(self, value):
175     #The timeout (seconds) for a single HTTP REST API request.
176     check_type(value, int, optional=True)
177     if value is not None and value <= 0:
178         raise ValueError("timeout value must be positive int")
179     self.single_request_timeout = value
180
```

Line File: cat.py

```
160 @single_request_timeout.setter
161 def single_request_timeout(self, value):
162     #The timeout (seconds) for a single HTTP REST API request.
163     check_type(value, int, optional=True)
164     if value is not None and value <= 0:
165         raise ValueError("timeout value must be positive int")
166     self.single_request_timeout = value
167
```

Line File: fish.py

```
160 @single_request_timeout.setter
161 def single_request_timeout(self, value):
162     #The timeout (seconds) for a single HTTP REST API request.
163     check_type(value, int, optional=True)
164     self.single_request_timeout = value
165
```

A

B

C

Next →

Line

File: fish.png

```
160  
161 @single_request_timeout.setter  
162 def single_request_timeout(self, value):  
163     #The timeout (seconds) for a single HTTP REST API request.  
164     check_type(value, int, optional=True)  
165     assert value is None or value > 0  
166     self.single_request_timeout = value  
167
```

D

Line

File: cat.py

```
160  
161 @single_request_timeout.setter  
162 def single_request_timeout(self, value):  
163     #The timeout (seconds) for a single HTTP REST API request.  
164     check_type(value, int, optional=True)  
165     assert value is None or value > 0  
166     if value is not None and value <= 0:  
167         raise ValueError("timeout value must be positive int")  
168     self.single_request_timeout = value
```



E

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

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

QUESTION 80

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

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

Correct Answer: AD

Explanation

Explanation/Reference:

Explanation:

QUESTION 81

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 82

Refer to the exhibit.

```

module ex-ethernet {
    namespace "http://example.com/Ethernet";
    prefix "eth";
    import ietf-interfaces {
        prefix if;
    }
    augment "/if:interfaces/if:interface" {
        when "if:type = 'ethernetCsmacd'";
        container ethernet {
            must ".../if:location" {
                description
                    "An Ethernet interface must specify the physical location of the ethernet hardware.";
            }
            choice transmission-params {
                case auto {
                    leaf auto-negotiate {
                        type empty;
                    }
                }
                case manual {
                    leaf duplex {
                        type enumeration {
                            enum "half";
                            enum "full";
                        }
                    }
                    leaf speed {
                        type enumeration {
                            enum "10Mb";
                            enum "100Mb";
                            enum "1Gb";
                            enum "10Gb";
                        }
                    }
                }
            }
        }
    }
} // other ethernet specific params...
}

```

What is represented in this YANG module?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

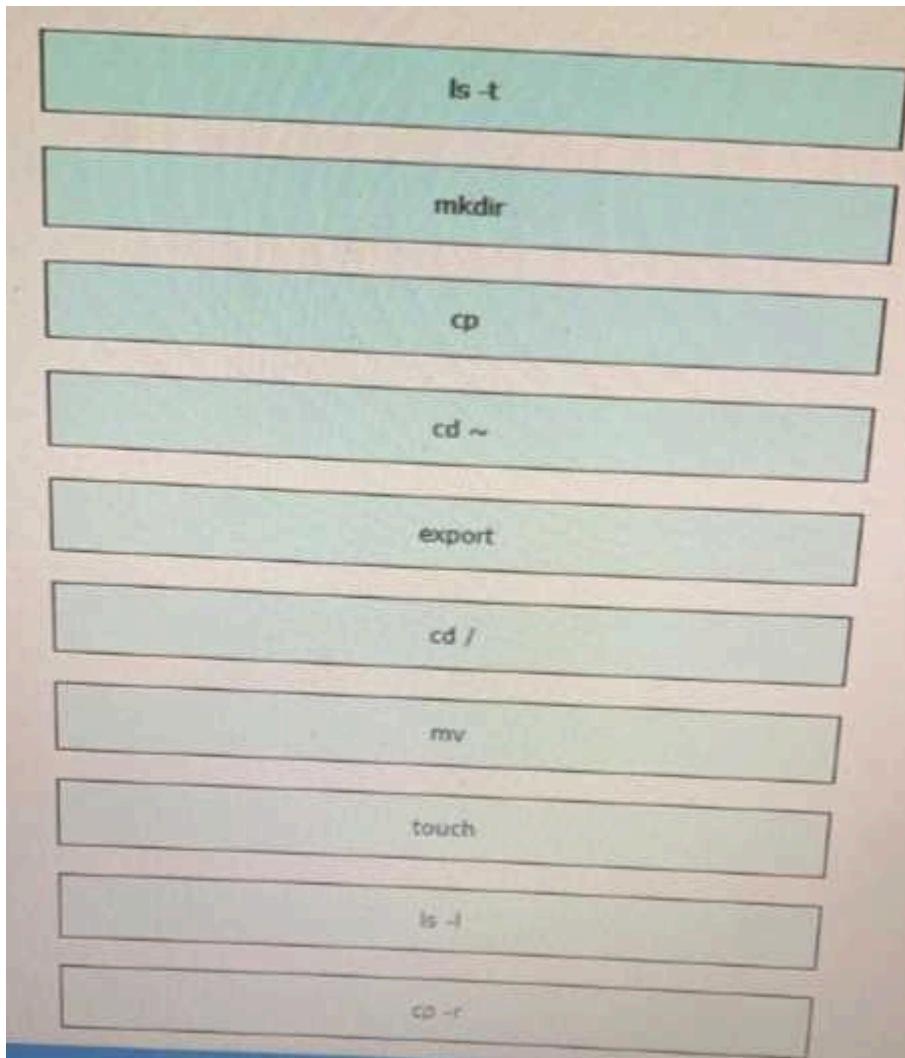
QUESTION 83

DRAG DROP

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

cd~	list files in directory sorted by edited date descending
cd/	create directory
ls -l	copy file
ls -t	change directory to user \$HOME
cp	create environment variable
cp -r	change directory to file system root
mv	move file
touch	create file
mkdir	list files in directory with details
export	copy directory

A.



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

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 84

Refer to the exhibit.

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

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 85

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

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

Correct Answer: D

Explanation

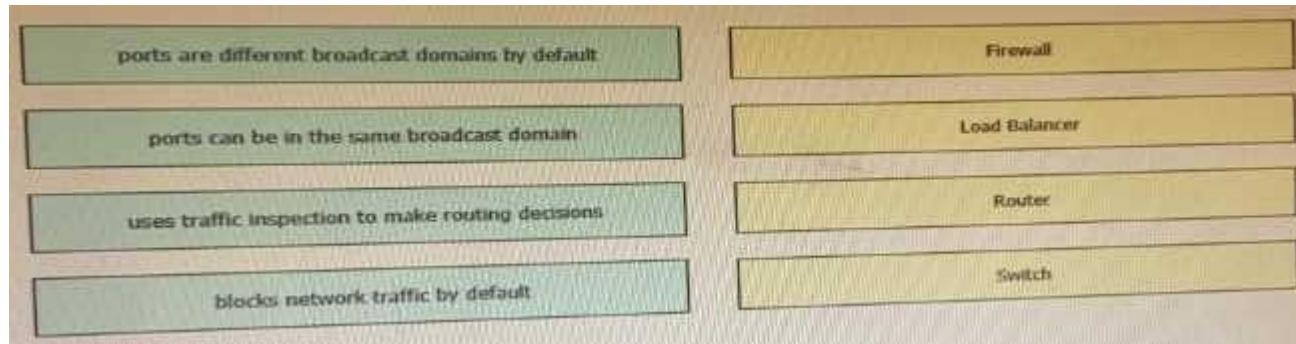
Explanation/Reference:

Explanation:

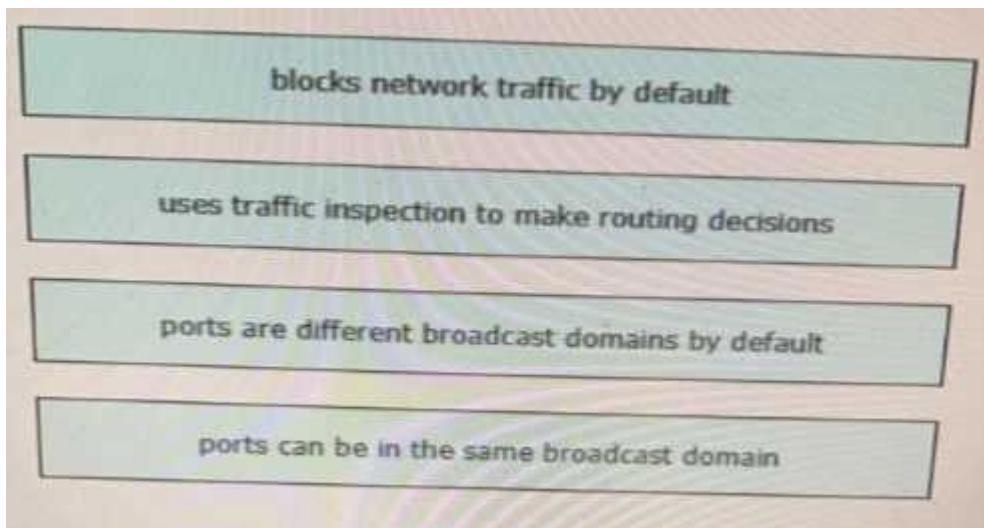
QUESTION 86

DRAG DROP

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



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



Reference: <https://geek-university.com/ccna/broadcast-domain-explained/>

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 87

DRAG DROP

Refer to the exhibit.

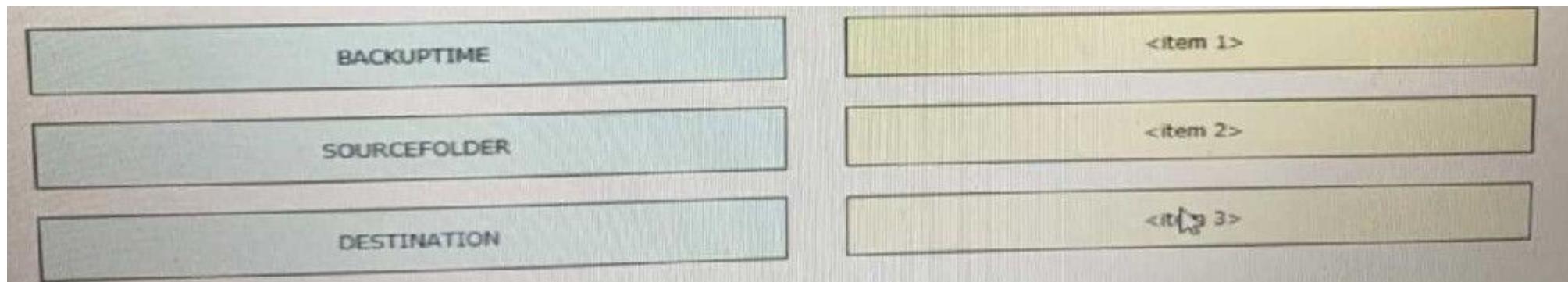
```
#!/bin/bash
<item 1>='date +%b-%d-%y'

<item 2>/home/usr/path/backup-$BACKUPTIME.tar.gz

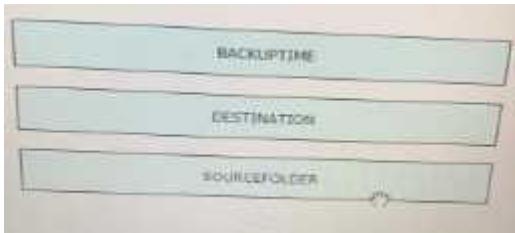
<item 3>/home/usr/path/data_folder

tar -cpzf $DESTINATION $SOURCEFOLDER
```

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



A. 1 A, 2 C, 3 B



Reference: <https://medium.com/@fotios.floros/linux-backup-script-1722cc9c2bf6> (use tar in order to create your backup file)

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 88

On which network plane is routing protocol traffic handled?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: https://tools.cisco.com/security/center/resources/understanding_cppr

QUESTION 89

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

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Reference: <https://meraki.cisco.com/blog/tag/alerts/>

QUESTION 90

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

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 91

Fill in the blanks to complete the statement.

Cisco DNA provide the capability to send an HTTP _____ request to the API endpoint https://DNA-c_API_ADDRESS/api/v1/network-device/ and receive the network _____ list in _____ format.

- A. Answer: GET, device,
JSON

Explanation:

Explanation:

Solution below as

Cisco DNA Center provides the capability to send an HTTP **GET** **[]** request to the API endpoint **device** **[]** list in **[]**
https://DNA-c_API_ADDRESS/api/v1/network-device/ and receive the network **[]** format.
JSON **[]**

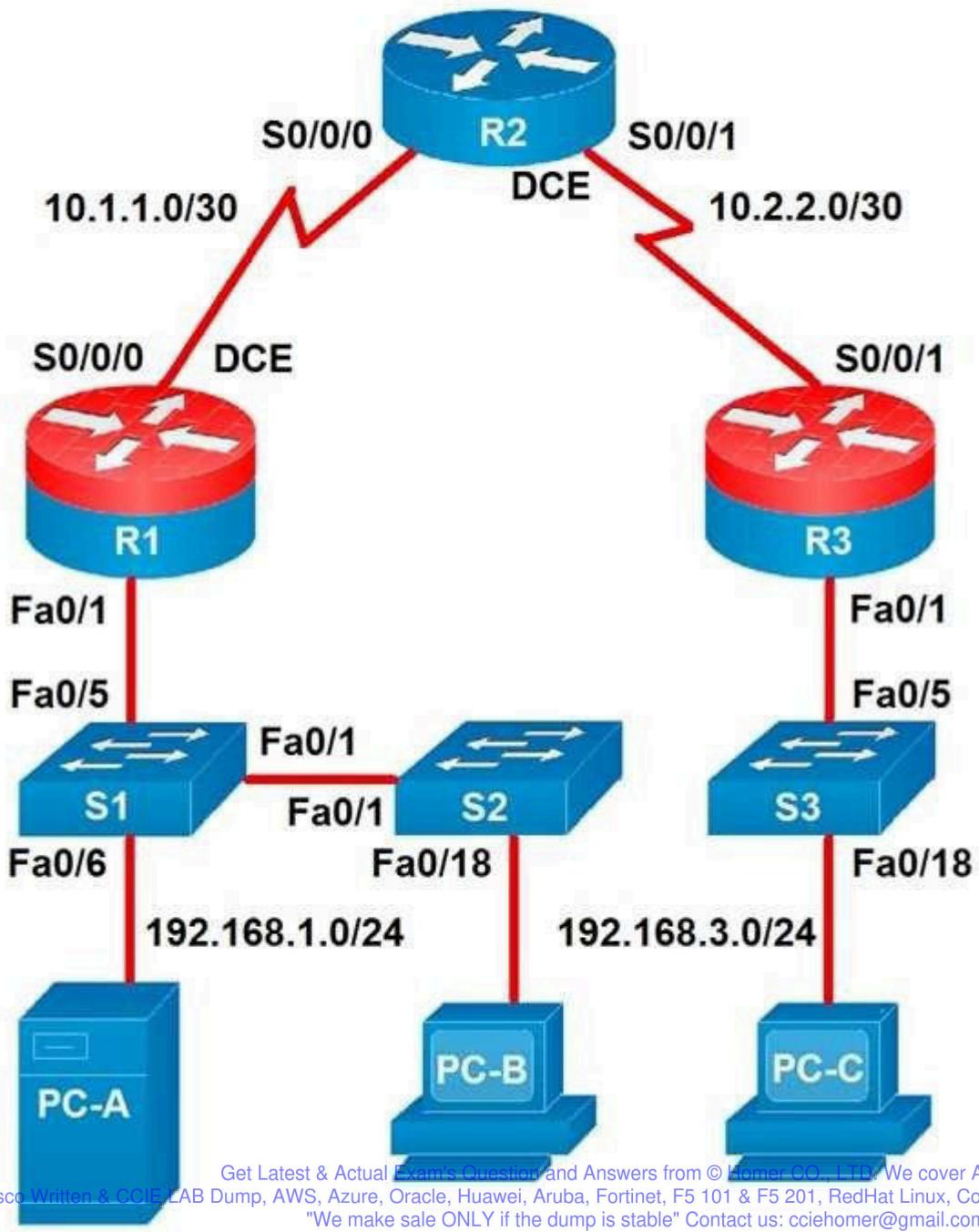
Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 92

Refer to the exhibit.



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

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

Correct Answer: BC

Explanation

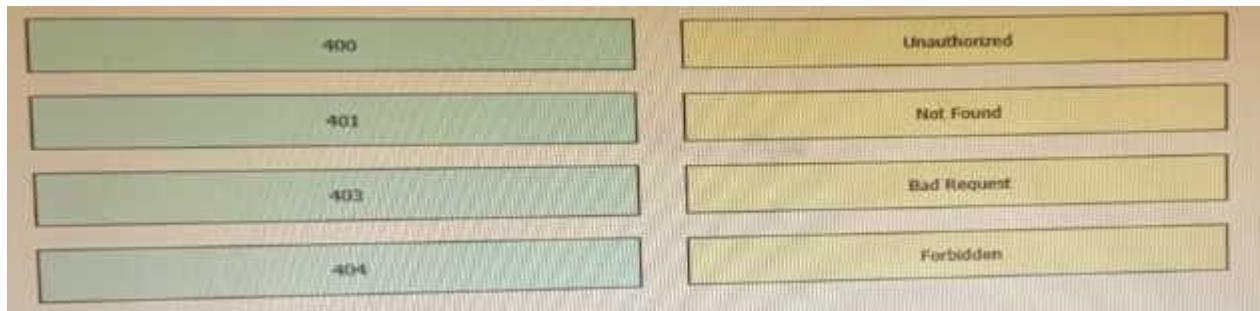
Explanation/Reference:

Explanation:

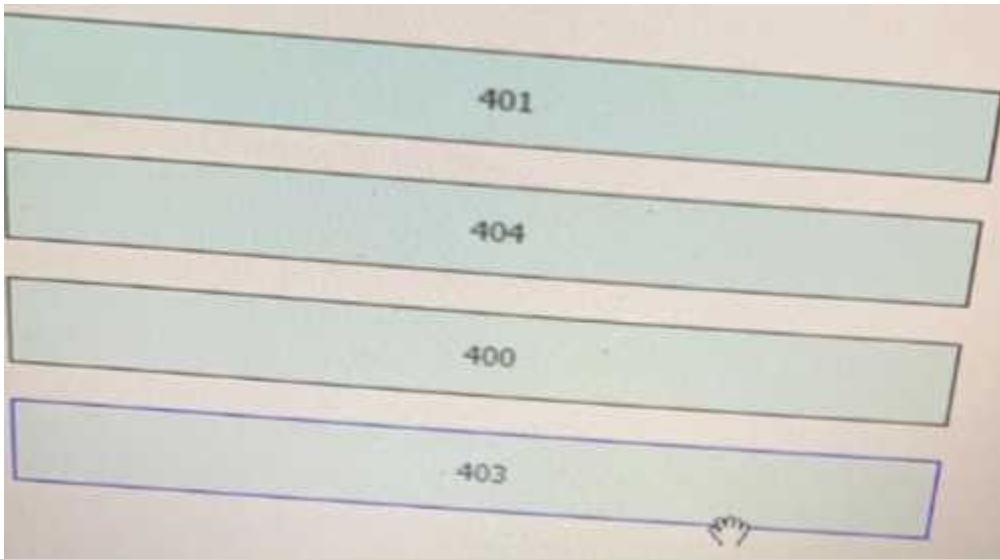
QUESTION 93

DRAG DROP

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



- A. Explanation:
1 B, 2 D, 3 A, 4 C



Reference: <https://www.cisco.com/c/en/us/support/docs/security/web-security-appliance/118217-troubleshoot-wsa-00.html>

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 94

Which statement describes the benefit of using functions in programming?

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

Correct Answer: A

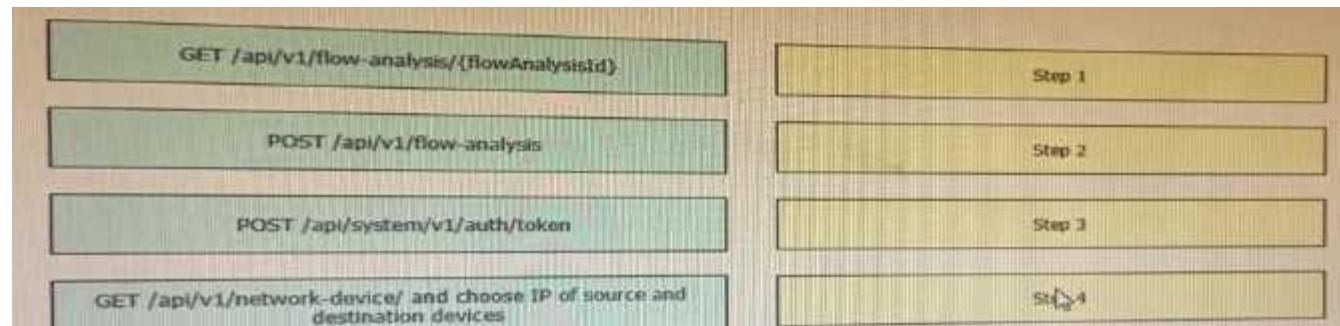
Explanation

Explanation/Reference:

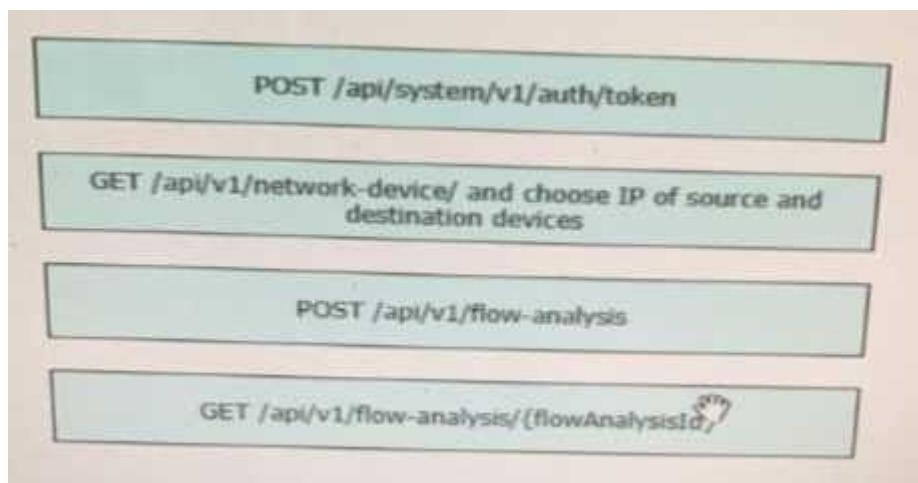
Explanation:

QUESTION 95
DRAG DROP

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



- A. Explanation:
1 C, 2 D, 3 B, 4 - A

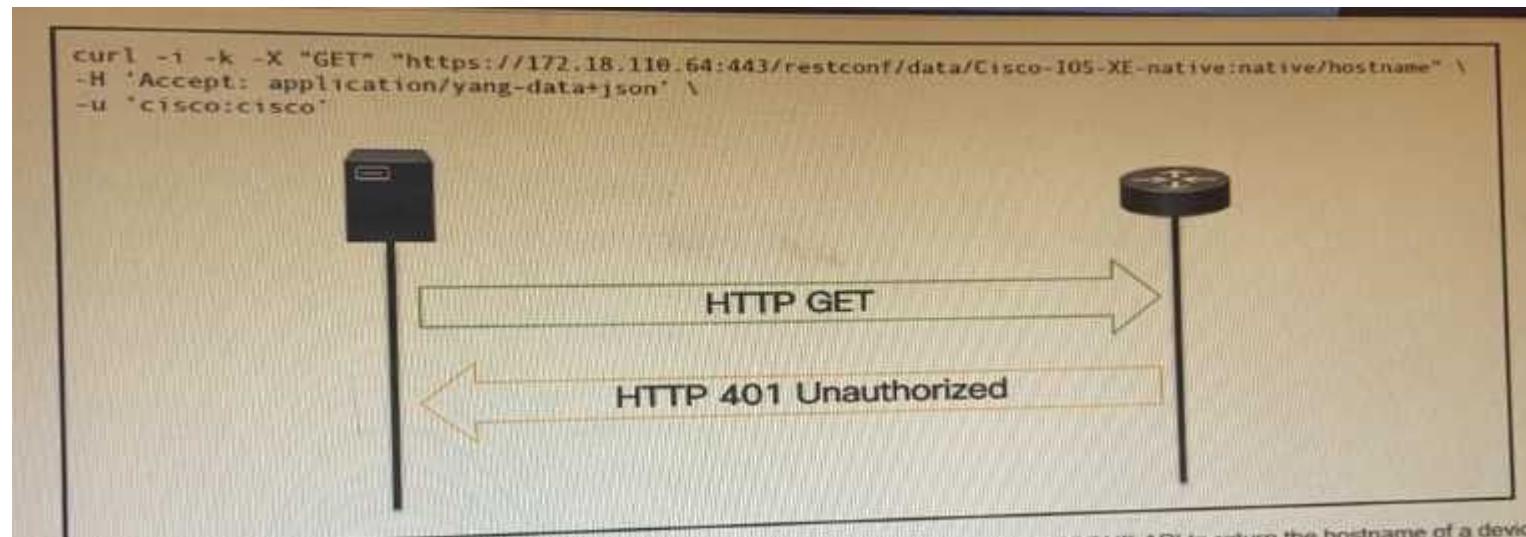


Correct Answer: A
Explanation

Explanation/Reference:

QUESTION 96

Refer to the exhibit.



OR



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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 97

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

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 98

Refer to the exhibit.

For CLI commands that support XML, the `clid()` method returns JSON output. An exception is thrown when XML is not used. Executes CLI commands. Takes CLI command string and returns show command output in a JSON form.

“

Note: The "clid" API can be useful when searching the output of show commands using JSON tools as shown in the example.

PYTHON

```
Example:  
>>> import json  
>>> from cli import *  
>>> jversion = json.loads(clid("show  
version"))  
>>> jversion[bios_ver_str]  
'08.06'
```

Arguments:

- cmd: Single CLI command or a batch of CLI commands. Delimiter for multiple CLI commands is a space followed by a semicolon. Configuration commands must be in a fully qualified form.

Returns:

- string: JSON-formatted output of show commands.

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

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

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

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

Correct Answer: AC

Explanation

Explanation/Reference:

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-

QUESTION 99

Refer to the exhibit.

Which two statement describe the configuration of the Ansible script is run? (Choose two.)

- A. Traffic on port 0/2 and 0/3 is connected to port 0/6.
- B. Traffic from ports 0/2 to 0/5 can flow on port 0/1 due to the trunk.
- C. Traffic can flow between ports 0/2 to 0/5 due to the trunk on port 0/1.
- D. GigabitEthernet0/2 and GigabitEthernet0/3 are access ports for VLAN 6.
- E. GiabitEthernet0/1 is left unconfigured.

Correct Answer: BD

Explanation

Explanation/Reference:

Explanation:

QUESTION 100

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

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

Correct Answer: BE

Explanation

Explanation/Reference:

Explanation:

QUESTION 101

DRAG DROP

Refer to the exhibit.

List the clients that have used this network in the timespan

HTTP REQUEST

`GET /networks/ {networkId}/clients`

PARAMETERS

t0

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

timespan

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

perPage

The number of entries per page returned. Acceptable range is 3 – 1000. Default is 10.

startingAfter

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

endingBefore

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

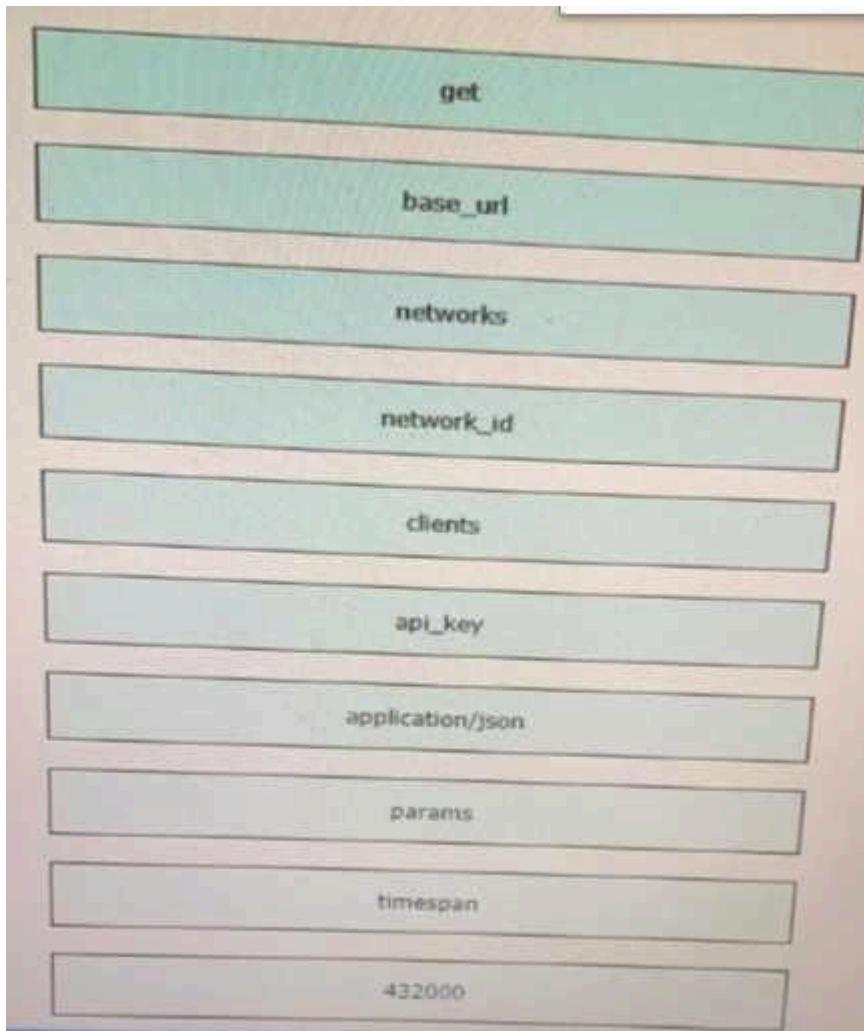
```
base_url = "https://api.meraki.com/api/v0"
network_id = "L_12345678910"
api_key = "1098hadpfsiapsf8ahf8ohp"
requests.<item 1> (
    <item 2> + "/<item 3>/" + /<item 4>, "/<item 5>",
    headers = {
        "X-Cisco-Meraki-API-Key": "<item 6>",
        "Content-Type": "<item 7>"
    },
    <item 8>={"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

```

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

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

A.



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

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 102

What is the benefit of edge computing?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Reference: <https://blogs.cisco.com/networking/time-to-get-serious-about-edge-computing>

QUESTION 103

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

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

Correct Answer: C

Explanation

Explanation/Reference:

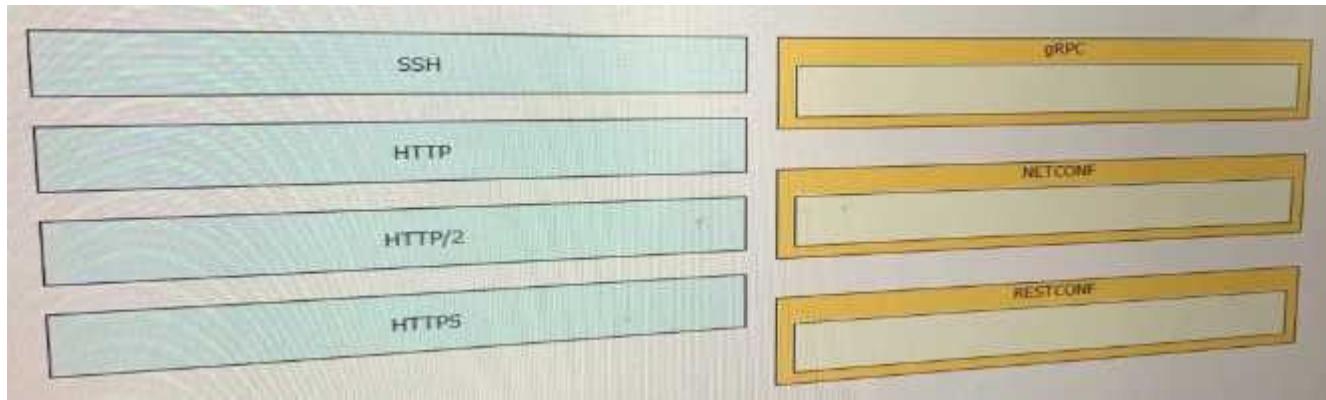
Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b_1610_programmability_cg/gnmi_protocol.html

QUESTION 104

DRAG DROP

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right. (Not all Options are used)



- A. Grpc == http/2 , netconfig == ssh , restconfig == https

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 105

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

```
import requests
url = "https://api.ciscospark.com/v1/memberships/Y2IzY29zcGFyazov371508156INISVAvOTJiM2RkOWEtNjc
1ZC00YTQxLThjNDEtMmFiZGY4OWY0NGY0OjExNzJkNmYwLTJIYzMtMTFIOS1iOWI3LWNmMjg3MTJ
hYTkzNw"
payload = "{\n  \"isModerator\": true\n}"
headers = {
    'Authorization': 'Bearer ' + token,
    'Content-Type': 'application/json'
}
response = requests.("PATCH", url, headers=, data = )
```

- A. Answer: request,
headers , payload
Explanation:

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 106

What is the first development task in test-driven development?

- A. Write code that implements a desired function.
- B. Write a failing test case for a desired function.
- C. Write a passing test case for existing code.
- D. Reverse engineer the code for a desired function.

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 107

What are two roles of an artifact repository in a CI/CD pipeline? (Choose two.)

- A. is required for CI/CD pipelines executed on a public cloud infrastructure
- B. is required for managing open source software
- C. stores files needed and generated during the build process
- D. allows for comparing and merging changes in the source code
- E. provides traceability, search, and management of binary files

Correct Answer: CE

Explanation

Explanation/Reference:

Explanation:

QUESTION 108

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

- A. directly maps to JavaScript
- B. multi-platform vendor abstraction

- C. designed to reflect networking concepts
- D. compiles to executables that run on network devices
- E. command line driven interface

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

QUESTION 109

what is an advantage of a version control system?

- A. forces the practice of trunk-based development
- B. prevents over-writing code or configuration files
- C. facilitates resolving conflicts when merging code
- D. ensures that unit tests are written

Correct Answer: C

Explanation

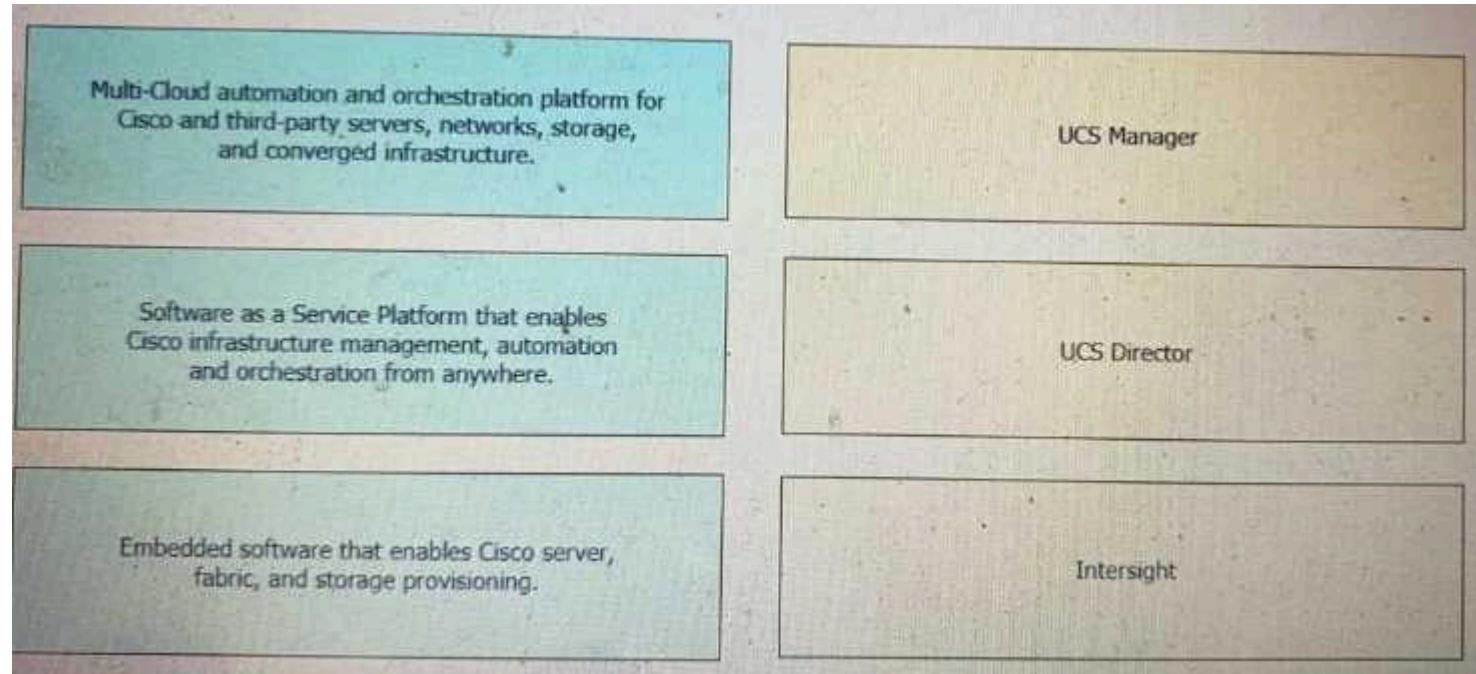
Explanation/Reference:

Explanation:

QUESTION 110

DRAG DROP

Drag and drop the capability on the left onto the Cisco compute management platform that supports the capability on the right.



A.



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 111

How is a branch called "my-bug-fix" started to develop a fix needed in a product?

- A. git branch -b my-bug-fix
- B. git checkout -b my-bug-fix
- C. git checkout my-bug-fix
- D. git branch my-bug-fix

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 112

Which service provides a directory lookup for IP addresses and host names?

- A. DNS
- B. DHCP
- C. SNMP
- D. NAT

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 113

A small company has 5 servers and 50 clients. What are two reasons an engineer should split this network into separate client and server subnets? (Choose two)

- A. Internet access to the servers will be denied on the router.
- B. A router will limit the traffic types between the clients and servers.
- C. Subnets will split domains to limit failures.
- D. A router will bridge the traffic between clients and servers.
- E. Subnets provide more IP address space for clients and servers.

Correct Answer: AC

Explanation

Explanation/Reference:

Explanation:

QUESTION 114

Which device is used to transport traffic from one broadcast domain to another broadcast domain?

- A. load balancer
- B. layer 2 switch
- C. router
- D. proxy server

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 115

Refer to the exhibit.

```
leaf IPPeer {  
    type union {  
        type inet:ipv4-address;  
        type inet:ipv6-address;  
    }  
}
```

What is the value of the node defined by this YANG structure?

```
① {  
    "IPPeer": "10.1.1.1"  
}  
  
② {  
    "IPPeer": "10.1.1.1 2001:db::1"  
}  
  
③ {  
    "IPPeer": [  
        "10.1.1.1",  
        "2001:db::1"  
    ]  
}  
  
④ {  
    "IPPeer": [  
        "10.1.1.1"  
    ]  
}
```

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

<https://tools.ietf.org/html/rfc7950#section-9.12>

QUESTION 116

Refer to the exhibit.

```
---
- hosts: CISCO_ROUTER_01
  gather_facts: true
  connection: network_cli

  tasks:
    - name: show conf
      ios_command:
        commands:
          - show conf
      register: config

    - name: save output to /etc/ansible/configs
      copy:
        content: "{{ config.stdout[0] }}"
        dest: "/etc/ansible/configs/show_conf_{{ inventory_hostname }}.txt"
```

What is the result of executing this Ansible playbook?

- A. The playbook copies a new start-up configuration to CISCO_ROUTER_01.
- B. The playbook backs up the running configuration of CISCO_ROUTER_01.
- C. The playbook backs up the start-up configuration of CISCO_ROUTER_01.
- D. The playbook copies a new running configuration to CISCO_ROUTER_01.

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 117

A 401 HTTP response code is returned when calling a REST API. What is the error state identified by this response code?

- A. The server cannot process the request as it has detected an issue in the request syntax or body.
- B. The server accepted the request but the client is not authorized for this content.
- C. The request has not been accepted because it requires authentication.
- D. The server cannot find the requested resource because the path specified is incorrect.

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 118

Fill in the blanks to complete the Bash script in which each file in a directory is renamed to its SHA256 hash?

```
TARGET_DIR=/usr/local/certs
for f in [REDACTED] [REDACTED]; do
    [REDACTED] $f `openssl sha -sha256 -r < $f | cut -f1 -d' '
done
```

- A. \$TARGET_DIR , mv

Explanation:

Explanation:

Check below the answer exact.

```
TARGET_DIR=/usr/local/certs
for f in $(ls $TARGET_DIR); do
    mv $f $(openssl sha -sha256 -r < $f | cut -f1 -d' ')
done
```

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 119

Users cannot access a webserver and after the traffic is captured. the capture tool shows an ICMP packet that reports "time exceeded in-transit". What is the cause of this webserver access issue?

- A. A router along the path is misrouting the packets in a wrong direction.
- B. A router along the path has the wrong time.
- C. The server is too far away and the packets require too much time to reach it
- D. The server is too loaded and the connection could not be handled in time

Correct Answer: A

Explanation

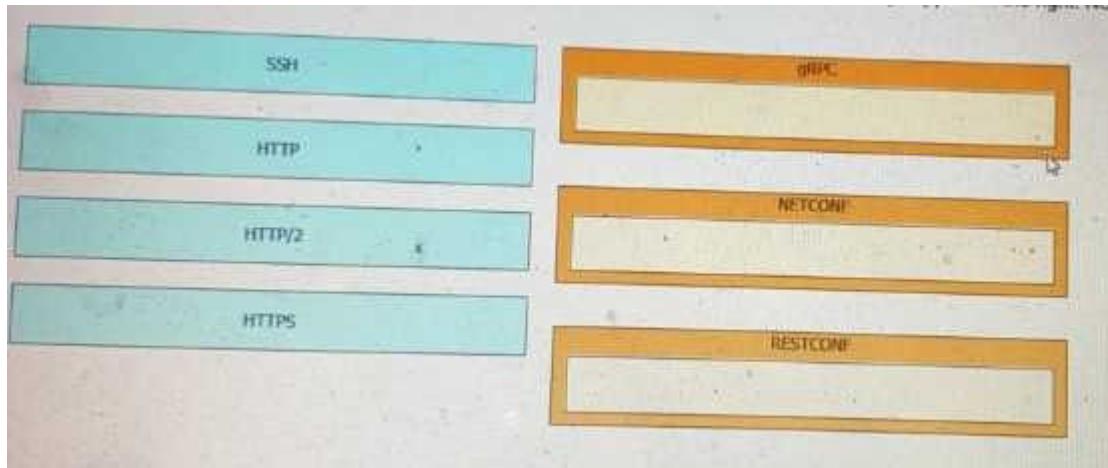
Explanation/Reference:

Explanation:

QUESTION 120

DRAG DROP

Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right. Not all options are used.



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 121

Refer to Exhibit.

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

Which JSON is equivalent to the XML-encoded data.

A.

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

B.

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

C.

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

D.

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

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

Correct Answer: A

Explanation

Explanation/Reference:

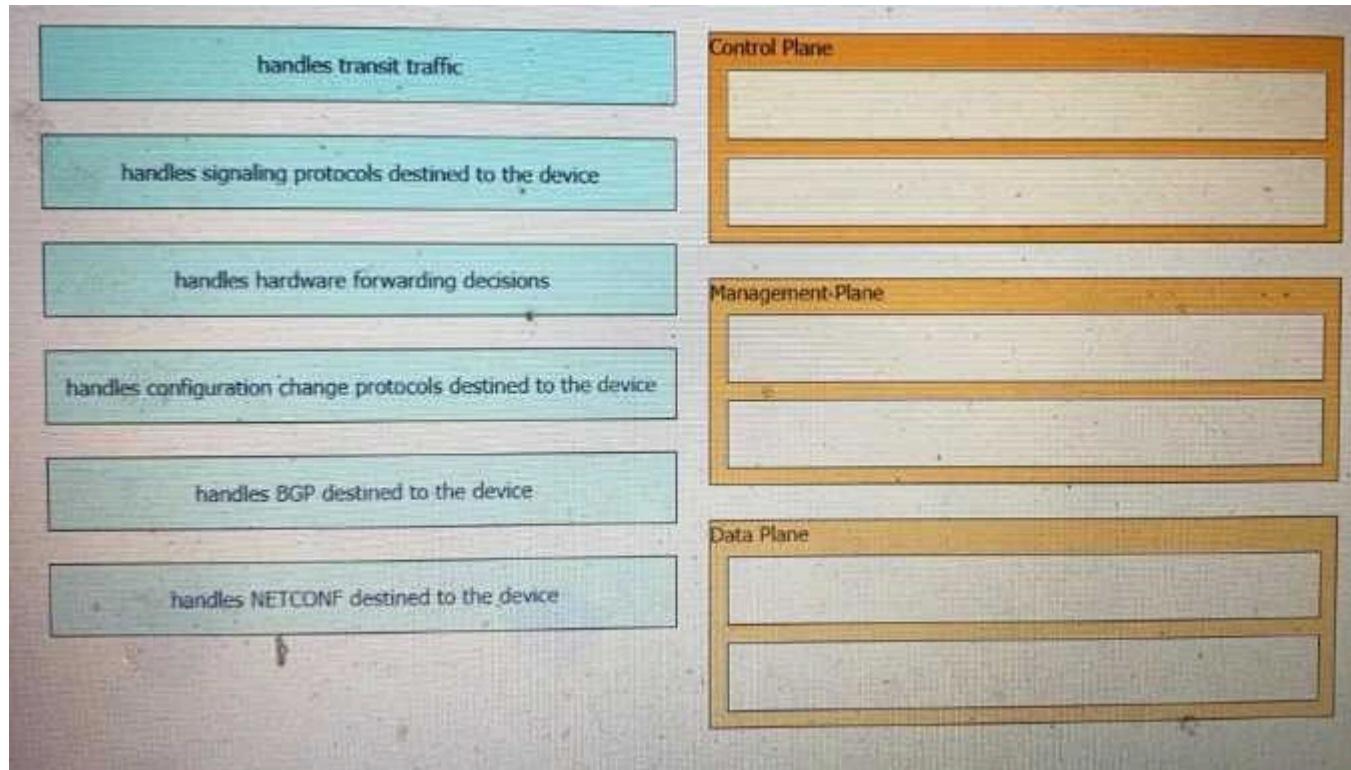
Explanation:

Explanation:

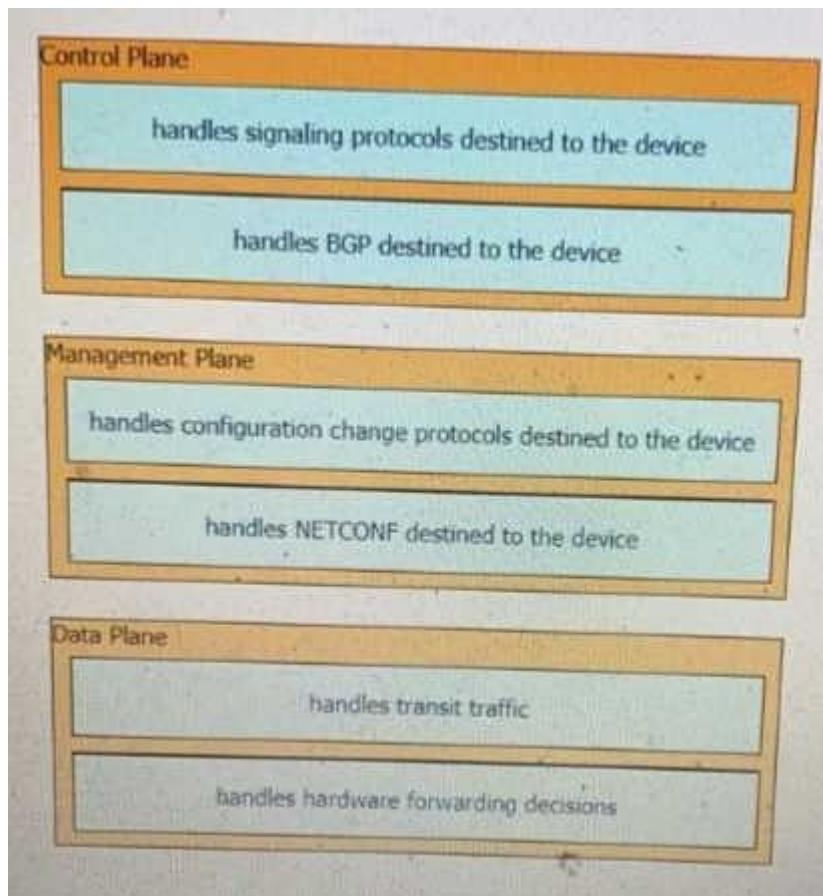
QUESTION 122

DRAG DROP

Drag and drop the function on the left onto the type of plane that handles the function on the right.



A.



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 123

Which platform is run directly using a hypervisor?

- A. bare metal systems
- B. containers

- C. virtual machines
- D. applications

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

Explanation:

QUESTION 124

What is the purpose of a firewall in application deployment?

- A. adds TLS support to an application that does not support it natively
- B. forwards traffic to a pool of instances of the application
- C. provides translation for an application's hostname to its IP address
- D. limits traffic to only ports required by the application

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 125

DRAG DROP

Drag and drop the Dockerfile instructions from the left onto the descriptions on the right. Not all options are used.

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

A.

EXPOSE 1521
VOLUME ["/var/www", "/var/log/apache2", "/etc/apache2"]
RUN apt-get update && apt-get install -y --force-yes apache2
ENTRYPOINT [/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
FROM ubuntu:12.04

Correct Answer: A
Explanation

Explanation/Reference:

QUESTION 126

What is used in Layer 2 switches to direct packet transmission to the intended recipient?

- A. spanning tree
- B. IPv4 address
- C. IPv6 address
- D. MAC address

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Explanation:

QUESTION 127

What operation is performed with YANG model-driven programmability in NX-OS?

- A. configure a device with native and OpenConfig-based models
- B. send CLI commands to a device and retrieve output in JSON format
- C. run Linux commands natively on the device
- D. bootstrap a device that has a factory-default configuration

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

Explanation:

QUESTION 128

Users cannot access a webserver and after the traffic is captured, the capture tool* shows an ICMP packet that reports "communication administratively prohibited". What is the cause of this webserver access issue?

- A. An access list along the path is blocking the traffic
- B. The traffic is not allowed to be translated with NAT and dropped.
- C. Users must authenticate on the webserver to access it
- D. A router along the path is overloaded and thus dropping traffic

Correct Answer: A

Explanation

Explanation/Reference:

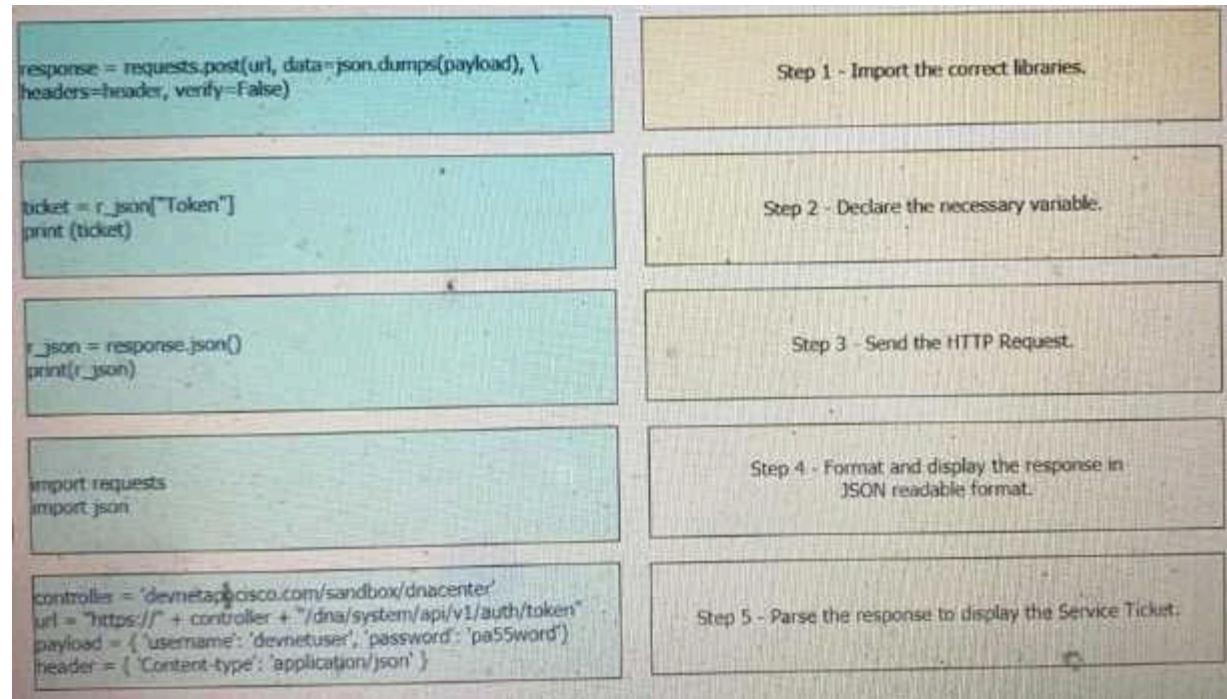
Explanation:

Explanation:

QUESTION 129

DRAG DROP

Drag and drop the Python code from the left onto the correct step on the right to call a REST API.



A.

```
import requests
import json

controller = 'devnetapi.cisco.com/sandbox/dnacenter'
url = "https://" + controller + "/dna/system/api/v1/auth/token"
payload = { 'username': 'devnetuser', 'password': 'pa55word'}
header = {''Content-type': 'application/json' }

response = requests.post(url, data=json.dumps(payload), \
headers=header, verify=False)

r_json = response.json()
print(r_json)

ticket = r_json["Token"]
print (ticket)
```

Correct Answer: A
Explanation

Explanation/Reference:

QUESTION 130

How does requesting a synchronous API operation differ from requesting an asynchronous API operation?

- A. clients poll for the status of the execution of operations
- B. clients subscribe to a webhook for operation results
- C. clients can access the results immediately
- D. clients receive responses with a task id for further processing

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 131

A Company is looking for cloud deployment which will use the on-premise infrastructure, is user self-service, and easy to scale. Which cloud solution should be selected for these requirements?

- A. multi
- B. public
- C. private
- D. hybrid

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 132

Which HTTP status Code means that the server cannot or will not process the request because of perceived client error?

- A. 100
- B. 203
- C. 303
- D. 400

Correct Answer: D

Explanation

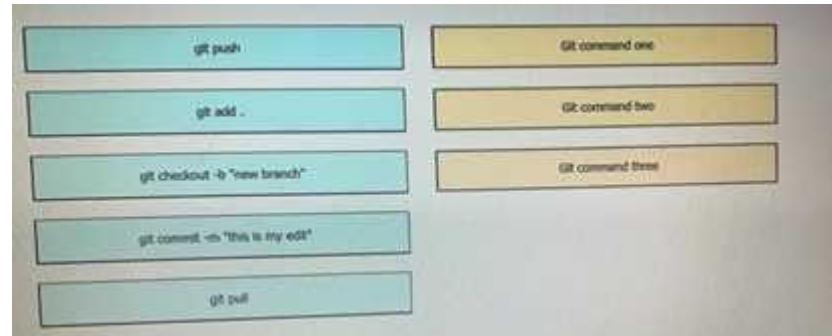
Explanation/Reference:

Explanation:

QUESTION 133

DRAG DROP

Drag and Drop the GIT commands from the left onto the right that add modified local files to a remote repository. Not all options are used



A. Explanation:

```
git add .
git commit -m "this is my edit"
git push
```

Correct Answer: A

Explanation

Explanation/Reference:**QUESTION 134**

What are the two purposes for using a VLAN in a network? (Choose two)

- A. It is used to create the routing table.
- B. It creates a collection of MAC addresses.
- C. It is used for VM network traffic.
- D. It segments a network.
- E. It creates a broadcast domain.

Correct Answer: DE

Explanation

Explanation/Reference:

Explanation:

QUESTION 135

A developer needs to prepare the file README.md in the working tree for the next commit operation using Git. Which command needs to be used to accomplish this?

- A. git add README.md staging
- B. git -a README.md
- C. git add README.md
- D. git commit README.md

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 136

Which two query types does a client make to a DNS server? (Choose Two)

- A. AAAA
- B. ACK
- C. DISCOVER
- D. Inverse
- E. PTR

Correct Answer: AE

Explanation

Explanation/Reference:

Explanation:

QUESTION 137

What is a function of the default gateway in a network?

- A. to drop traffic that is destined to the default gateway
- B. to drop traffic that is not destined to the default gateway

- C. to forward traffic to the same subnet
- D. to forward traffic to different subnets

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 138

In which situation would an edge computing solution be used?

- A. where low latency is needed
- B. where high CPU throughput is needed
- C. where fast memory is needed
- D. where high disk space is needed

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 139

Refer to the exhibit.

```
{
  "items": [
    {
      "kind": "object#NetworkObj",
      "selfLink": "https://10.201.230.5/api/objects/networkobjects/db01",
      "name": "db01",
      "host": {
        "kind": "IPv4address",
        "value": "172.16.0.11"
      },
      "objectId": "db01"
    }
  ]
}
```

The JSON data in the exhibit has been parsed and stored in a variable, "data". What returns the value "172.16.0.11" ?

- A. data["items"][0]['host']['value']
- B. data["items"]['1'][['host']]['value']
- C. data["items"]['host'][1]

D. data["items"]["host"]['value']

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 140

Which network device monitors incoming and outgoing traffic and decides whether to allow or block specific traffic based on a defined set of rules?

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 141

DRAG DROP

Refer to the exhibit.

HTTP REQUEST

POST /organizations/{organizationId}/networks

PARAMETERS

name
The name of the new network

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

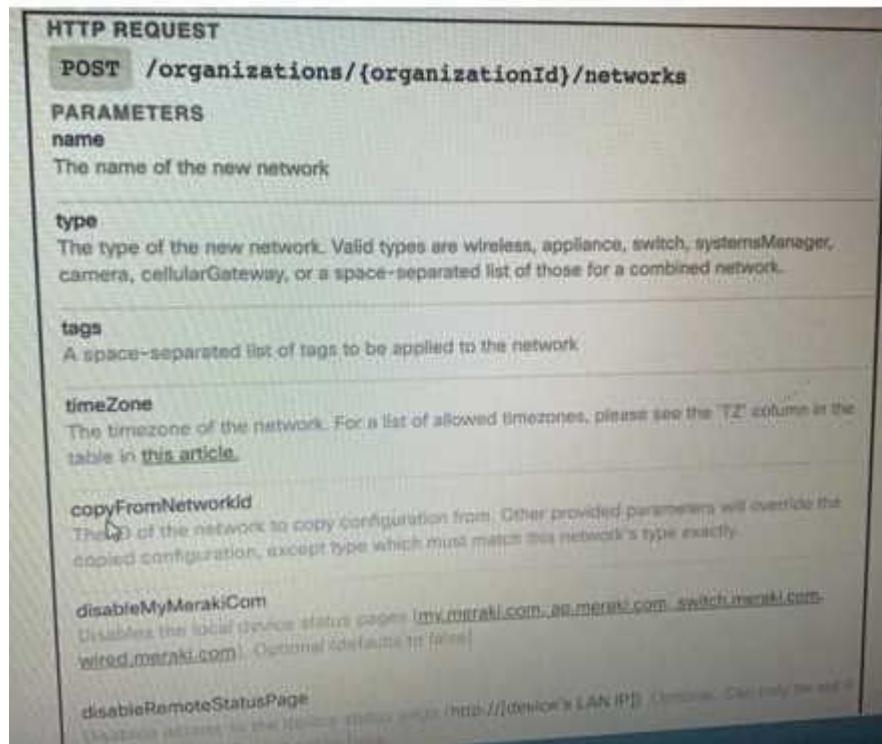
tags
A space-separated list of tags to be applied to the network

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

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

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

disableRemoteStatusPage
Disables the remote status page (<http://device's LAN IP>). Optional. Can only be set if disableMyMerakiCom is set to true.



Drag and Drop the code from the bottom onto the box where the code is missing on the Meraki Python script to create a new network

```
base_url = "https://api.meraki.com/api/v0"
org_id = "123456789"
api_key = "1098hadpfsiapsf8ahf8ohp"
network_name = "New Network"
requests. post(
    base_url + "/[REDACTED]/*/[REDACTED] + "/networks",
    [REDACTED] = {
        "X-Cisco-Meraki-API-Key": [REDACTED],
        "Content-Type": "application/json"
    },
    data=json.dumps({
        "[REDACTED]": network_name,
        "type": "wireless switch"
    })
)
```

[REDACTED]
organizations

[REDACTED]
headers

[REDACTED]
api_key

[REDACTED]
org_id

[REDACTED]
data

A.

```
base_url = "https://api.meraki.com/api/v0"
org_id = "123456789"
api_key = "1098hadpfsiapsf8ahf8ohp"
network_name = "New Network"
requests. post(
    base_url + "/organizations/" + org_id + "/networks",
    headers = (
        "X-Cisco-Meraki-API-Key": api_key,
        "Content-Type": "application/json"
    ),
    data=json.dumps({
        "name": network_name,
        "type": "wireless switch"
    })
)
```

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 142

Which response status code is used by a RESTful interface to indicate successful execution of a request?

- A. 200
- B. 404
- C. 405
- D. 500

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 143

What is a tenet of test-driven development?

- A. write documentation for tests
- B. write tests after adding new blocks of code
- C. write and run tests before writing new code
- D. run tests after writing new code

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 144

What are the two principles of an infrastructure as code environment? (Choose two)

- A. Complete complex systems must be able to be built from reusable infrastructure definitions.
- B. Environments must be provisioned consistently using the same inputs.
- C. Redeployments cause varying environment definitions.
- D. Service overlap is encouraged to cater for unique environment needs.
- E. Components are coupled, and definitions must be deployed for the environment to function.

Correct Answer: AB

Explanation

Explanation/Reference:

Explanation:

QUESTION 145

Refer to the exhibit.

List the networks in a Meraki organization:

```
GET https://api.meraki.com/api/v0/organizations/<org_id>/networks
Response code: 200
Response body: [ {
    "id": <network_id>,
    "name": "Test Network",
    "organization_id": <new_org_id>,
    "type": "wireless",
    "timeZone": "America/Los_Angeles",
    "tags": " test "
} ]
```

Fill in the blanks to complete the cURL command to list the networks in the Meraki organization with an id of 384279060

```
curl -X GET -L \
  -url https://api.meraki.com/api/v0/ [ ] / [ ] / [ ] \ 
  -H 'X-Cisco-Meraki-API-Key: '$meraki_api_key
```

- A. organizations ,
384279060 ,
networks
Explanation:
Explanation:
Solution below

```
        "organization_id": <new_org_id>,
        "type": "wireless",
        "timeZone": "America/Los_Angeles",
        "tags": " test "
    ] ]
```

t. Fill in the blanks to complete the cURL command to list the networks in the Meraki organization with an Id of 384279060:

meraki.com/api/v0/ / /

curl -X GET "https://\$meraki_api_key:\$meraki_api_key@meraki.com/api/v0/organizations/384279060/networks"

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 146

A REST API service requires authentication based on the username and password. The user "john" has the password "384279060" and the Base64 encoding of those credentials is "am9objowMTIzNDU2Nzg=". Which method completes an authentication request?

- A. The header must include:
Authorization: Bearer am9objowMTIzNDU2Nzg=
- B. The payload must include:
Authorization: Bearer am9objowMTIzNDU2Nzg=
- C. The payload must include.
Authorization: Basic am9objowMTIzNDU2Nzg=
- D. The header must include:
Authorization: Basic am9objowMTIzNDU2Nzg=

Correct Answer: D

Explanation

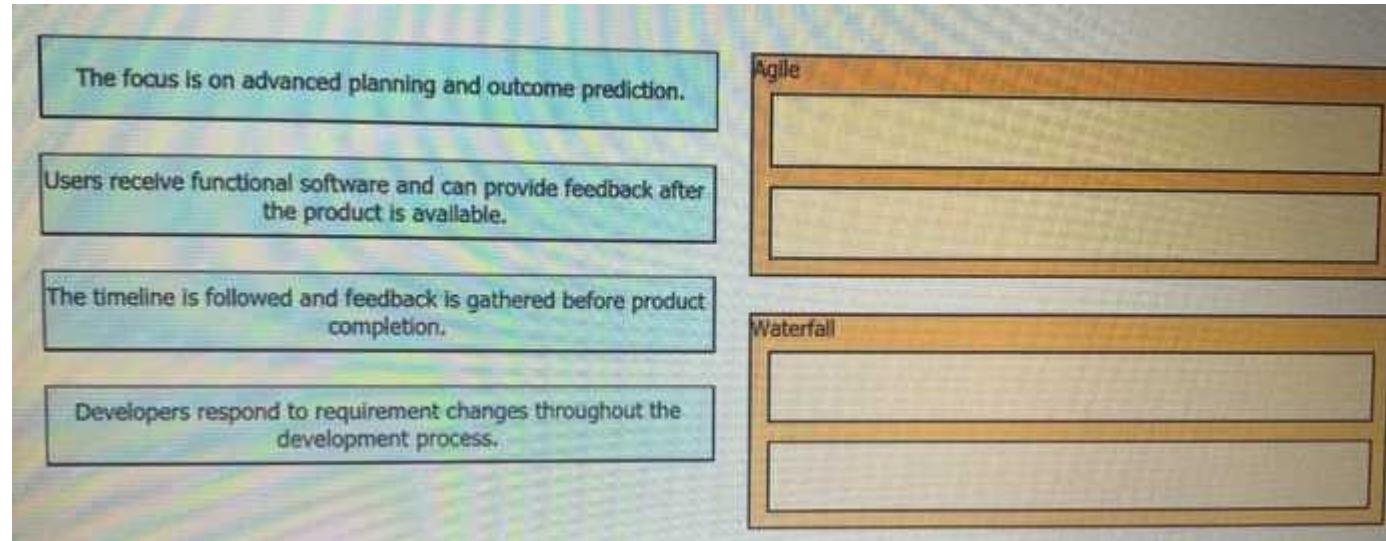
Explanation/Reference:

Explanation:

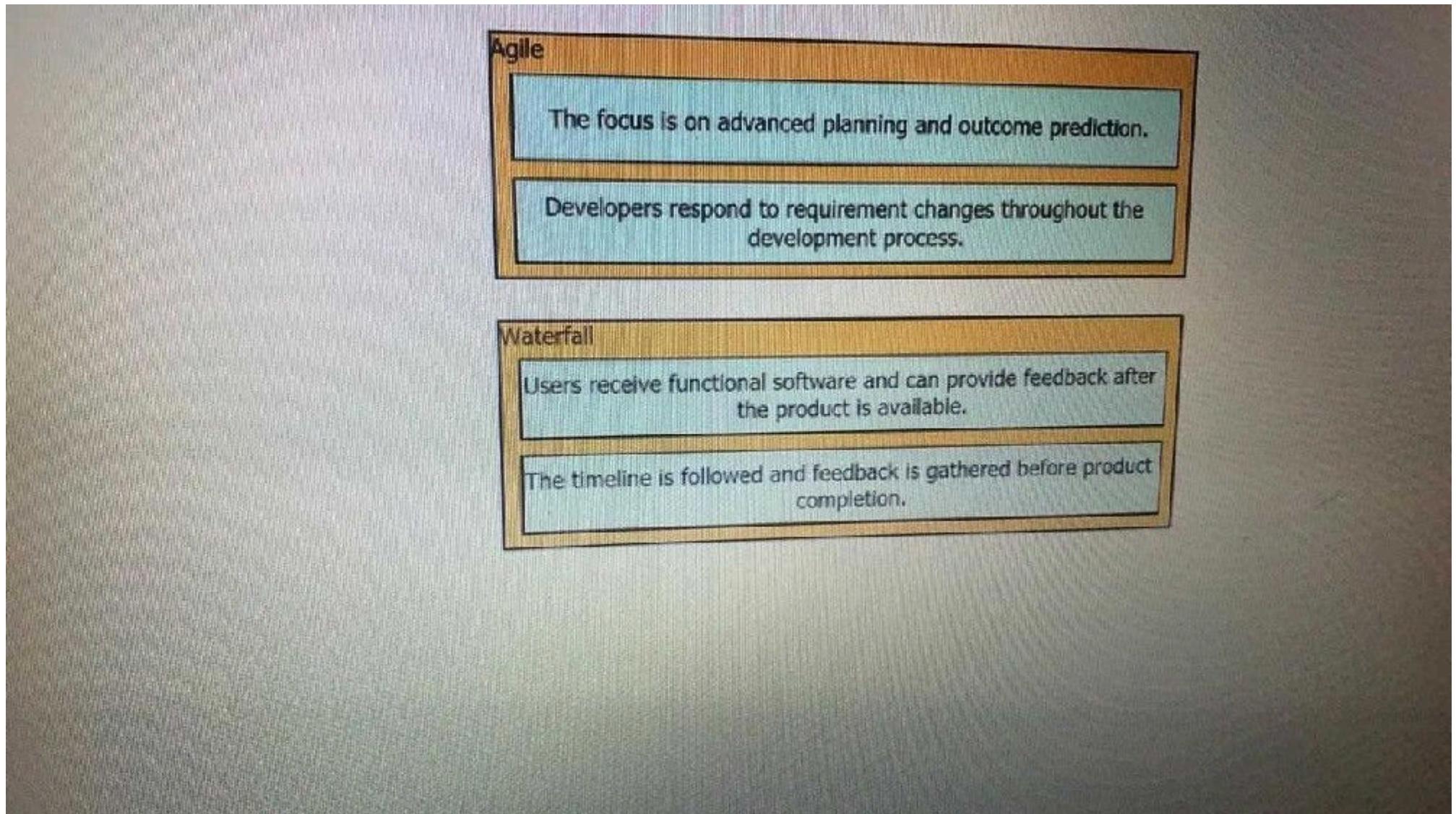
QUESTION 147

DRAG DROP

Drag and drop the characteristics from the left onto the corresponding software development methodologies on the right?



A. Explanation:



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 148

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

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

Correct Answer: BC

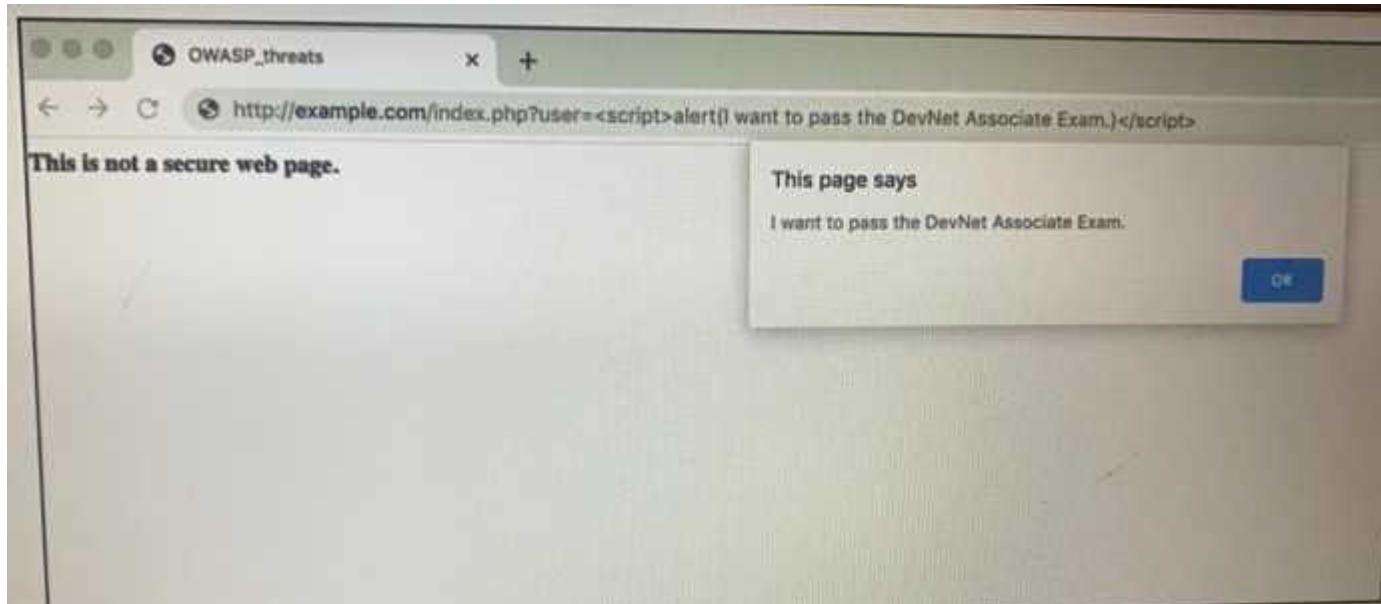
Explanation

Explanation/Reference:

Explanation:

QUESTION 149

Refer to the exhibit.



Which OWASP threat does this example demonstrate?

- A. broken access control
- B. SQL injection
- C. man-in-the-middle
- D. cross-site scripting

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 150

The project is migrated to a new codebase, the "old_project" directory must be deleted. The directory has multiple read-only files, and it must be deleted recursively without prompting for confirmation. Which bash command must be used?

- A. rm -rf old_project
- B. rm -r old_project
- C. rmdir -p old_project
- D. rmdir old_project

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 151

What is a benefit of a model-driven approach for infrastructure automation?

- A. enforces the generation of all automation scripts through the modeling environment
- B. provides a small learning curve and helps system administrators with limited coding experience
- C. ensures that system administrators gain a good understanding of coding and expand their experience and capabilities
- D. enables a user to understand a declarative language to translate the model into an actionable script

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 152

DRAG DROP

Drag and drop the code from the bottom onto the box where the code is missing in the Bash script to complete the missing assignment.

```
#!/bin/bash
[ ] =`date +%b-%d-%y`
[ ] =/home/usr/path/backup-$BACKUPTIME.tar.gz
[ ] =/home/usr/path/data_folder
tar -cpzf $DESTINATION $SOURCEFOLDER
```

BACKUPTIME**SOURCEFOLDER****DESTINATION****A. Explanation:**

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

Correct Answer: A**Explanation****Explanation/Reference:**

QUESTION 153

How does a synchronous API request differ from an asynchronous API request?

- A. clients receive responses with a task id for further processing
- B. clients subscribe to a webhook for operation results
- C. clients are able to access the results immediately
- D. clients poll for the status of the execution of operations

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 154

Which Cisco platform provides organization-wide automation, security, policy enforcement, any agility across wired and wireless networks?

- A. Cisco ACI
- B. Cisco DNA Center
- C. Cisco Umbrella
- D. Cisco SD-WAN

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 155

What is used in JSON to represent a Python Tuple?

- A. Object
- B. Array
- C. Dict
- D. Collection

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 156

How do XML and JSON compare regarding functionality?

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

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 157

How are load balancers used in modern application deployment?

- A. Allow traffic to continue as new compute units are brought up and old compute units are taken down.
- B. Allow http and https traffic to continue as old compute units are discontinued before new units are brought up.
- C. Turn off traffic and take down compute units, then update and bring the compute units back up.
- D. Bring up new compute units, test the compute units, and switch the traffic from old units to new units.

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 158

Which advantage does the agile process offer compared to waterfall software development?

- A. to view the full scope of end-to-end work
- B. to have each phase end before the next begins
- C. to fix any issues at the end of the development cycle
- D. to add or update features with incremental delivery

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 159

What is a benefit of organizing into modules?

- A. improves collaboration of the development team
- B. makes it easier to deal with large and complex systems
- C. enables the code to be broken down into layers
- D. enables the inclusion of more programming languages in the code

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 160

What is the function of IP address in networking?

- A. specifies the type of traffic that is allowed to roam on a network
- B. represents the unique ID that is assigned to one host on a network
- C. specifies resource's location and the mechanism to retrieve it
- D. represents a network connection on specific devices

Correct Answer: B

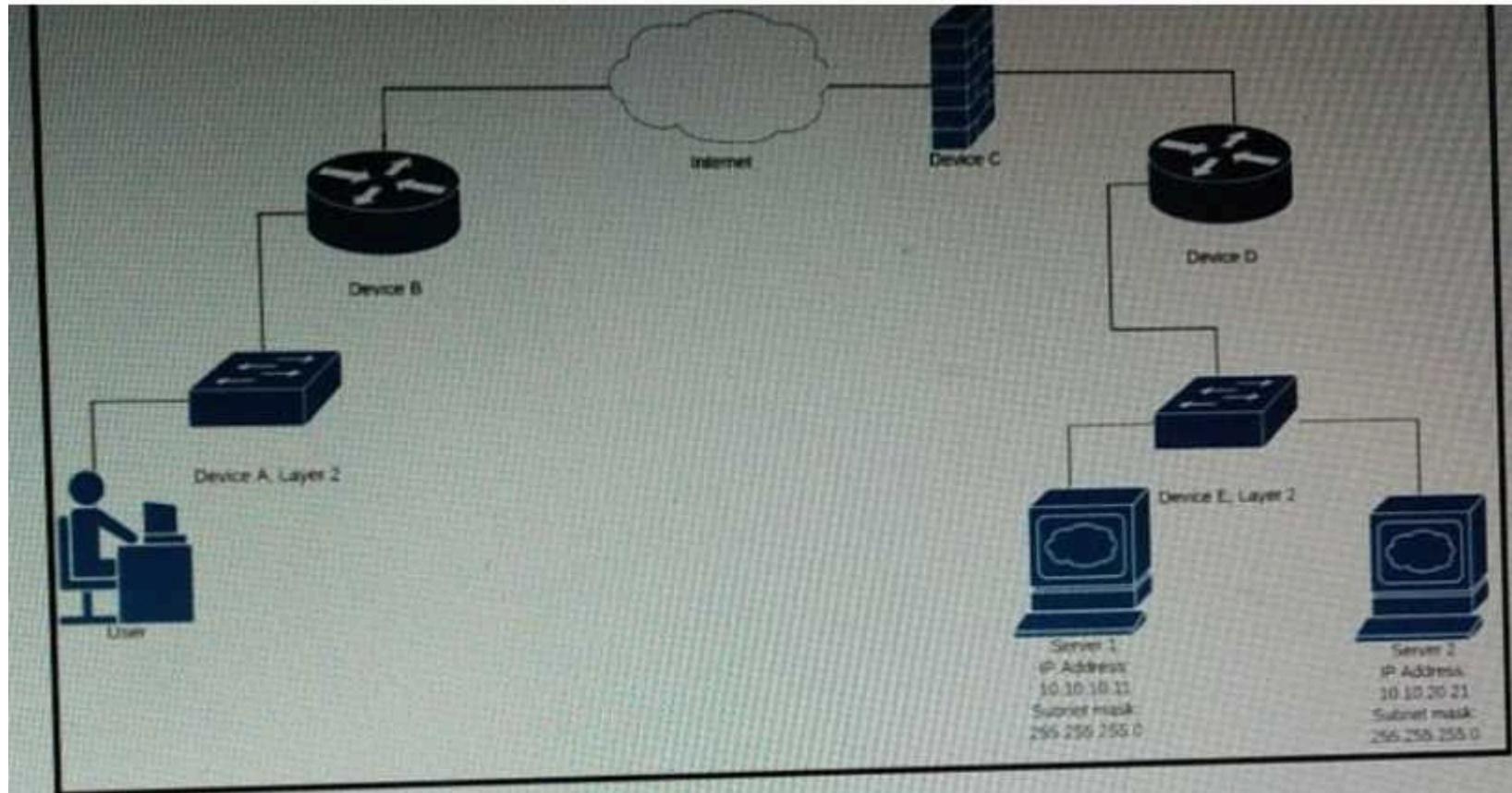
Explanation

Explanation/Reference:

Explanation:

QUESTION 161

Refer to the exhibit.



Which device limits traffic between server 1 and server 2?

- A. Device B
- B. Device C
- C. Device D
- D. Device E

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 162

Refer to the exhibit.

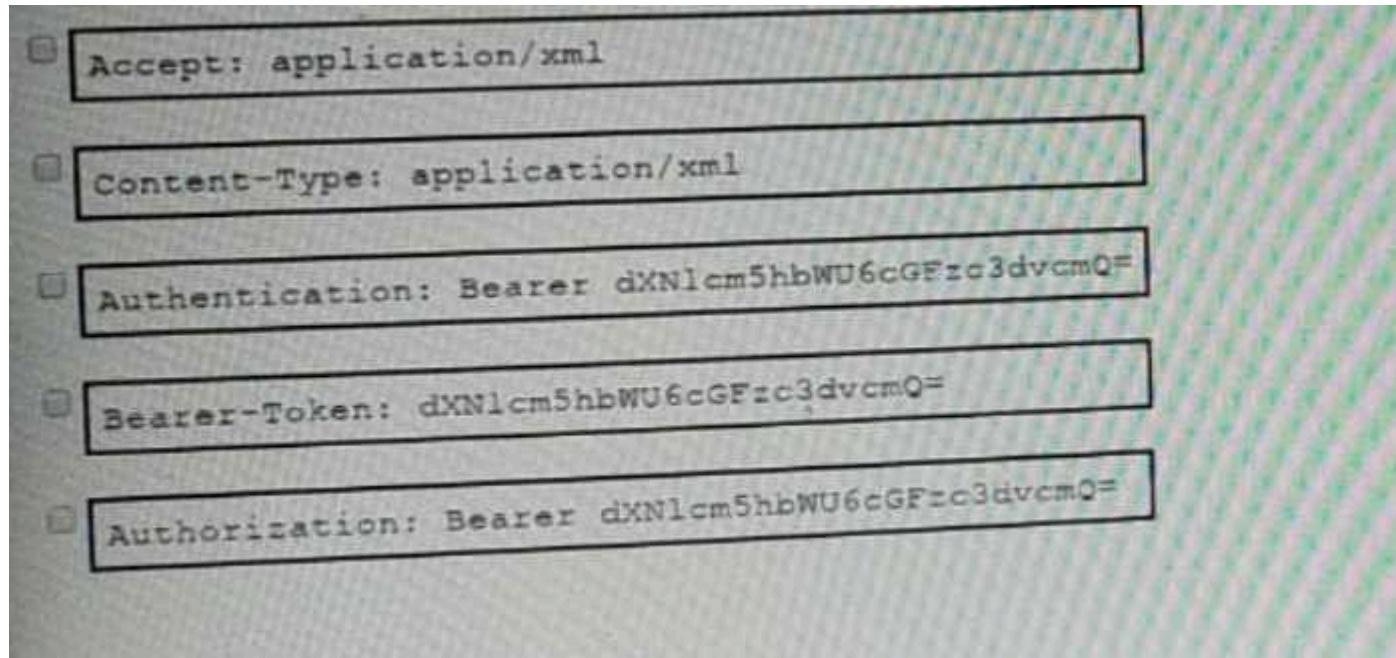
```
API v1 documentation:
Authentication and authorization: Bearer Token
Inventory endpoint: /api/v1/inventory
Method: GET
Response formats: text/html, application/json,
application/xml

Token:
dXNlcjcm5hbWU6cGFzc3dvcmQ=

Api call:
GET /api/v1/inventory HTTP/1.1
Host: example.com

Response:
HTTP/1.1 401 Unauthorized
```

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



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

Correct Answer: BE

Explanation

Explanation/Reference:

Explanation:

QUESTION 163

What is a benefit of using edge computing in an IoT implementation?

- A. low cost in network design
- B. low network design complexity
- C. high availability for network components

D. high speed in data processing

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 164

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

- A. Branching code
- B. Merge of code
- C. Checkout of code
- D. Committing code

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 165

Refer to the exhibit.

Local File Attachments

To send local file attachments, simply post a message by including your access token in the Authorization header and the path to your local file with the files parameter. Optionally, you can also include a plain-text message with the attachment by using the text parameter. When uploading files directly from your local filesystem, your request will need to be a multipart/form-data request rather than JSON.

```
curl --request POST \
  --form "files=@/home/desktop/example.png;type=image/png" \
  --form "roomId=Y2lzY2....." \
  --form "text=example attached" \
  https://webexapis.com/v1/messages
```

A developer needs to upload a local file by using the REST API. The developer gathers information according to the documentation and sends the request by using the cURL command in the exhibit but gets an error code. Which action should be followed to get valid response?

- A. change content type as JSON
- B. add the authorization header with the access token
- C. add a username-password combination to request command
- D. change request method as GET

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 166

What are two benefits of model-driven programmability?

- A. model-driven APIs for abstraction and simplification
- B. single choice of transport, protocol, and encoding
- C. model-based, structured, and human friendly
- D. easier to design, deploy, and manage APIs

E. models decoupled from transport, protocol, and encoding

Correct Answer: DE

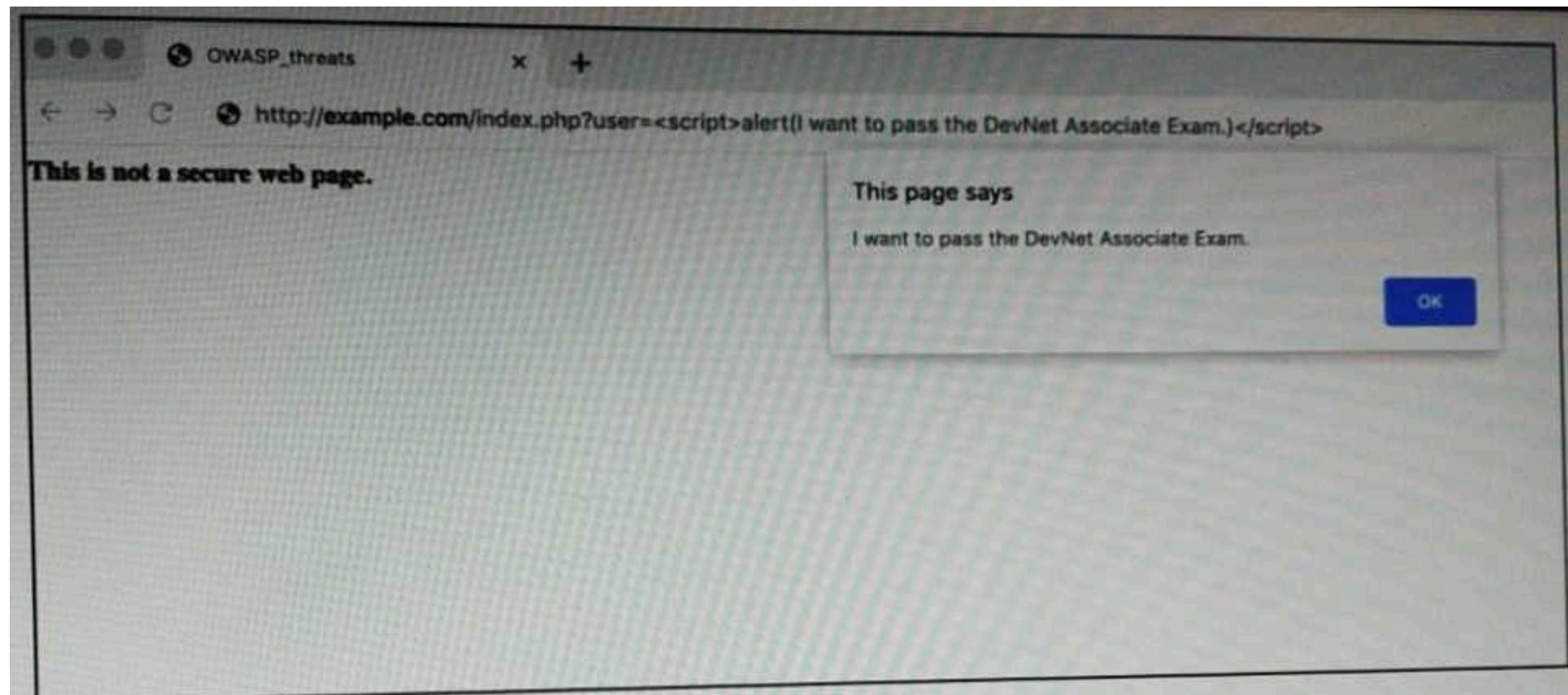
Explanation

Explanation/Reference:

Explanation:

QUESTION 167

Refer to the exhibit.



OWASP threat does this example demonstrate?

- A. Broken access control
- B. SQL injection
- C. Man-in-the-middle
- D. Cross-site-scripting

Correct Answer: D

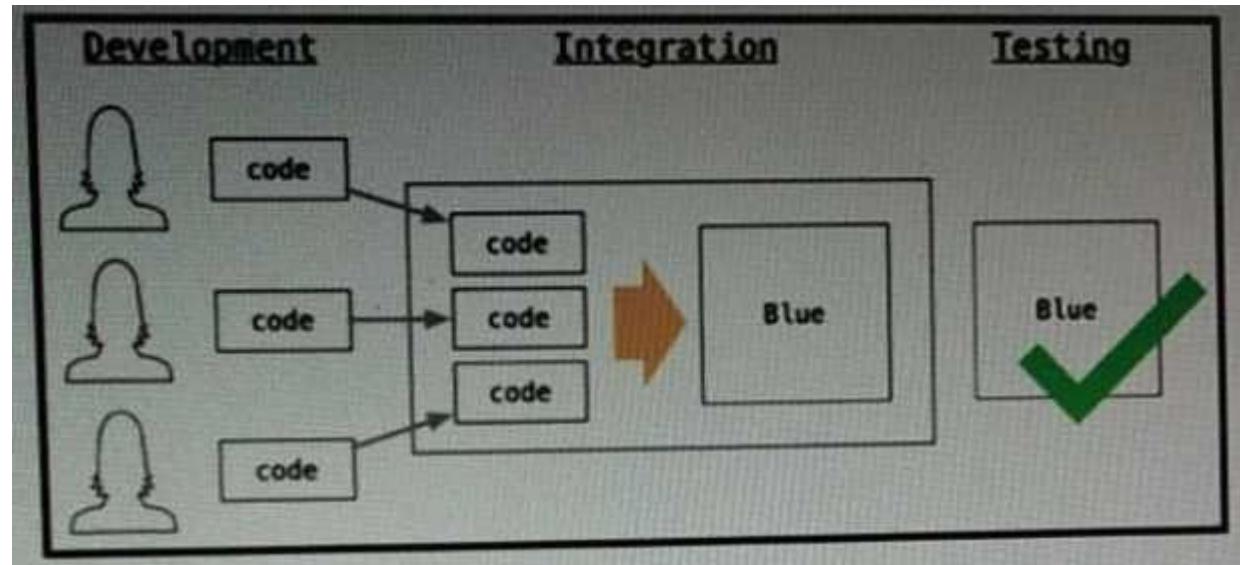
Explanation

Explanation/Reference:

Explanation:

QUESTION 168

Refer to the exhibit.



Which infrastructure automation method is shown?

- A. Waterfall
- B. CI/CD pipeline
- C. Agile
- D. Lean

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 169

A developer is trying to retrieve data over a REST API. The API server responds with an HTTP client error response code. After investigating the response the developer realizes the response has a Retry-After header. What is the root cause of this error?

- A. The REST service is unreachable at the time of the REST request
- B. Too many requests were sent to the REST service in a given amount of time.
- C. An appliance limited the rate of requests to the transport layer.
- D. An appliance limited the rate of requests to the application layer

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 170

What are two use cause where webhooks are effective? (Choose two.)

- A. Close a session with a web server after a specific amount of time.
- B. Filter out information from a response to an API call
- C. Change the response format or content type of an API call.
- D. Inform a previously defined chat channel after a deployment fate.
- E. Send an email to a customer of an online store after payment is complete

Correct Answer: DE

Explanation

Explanation/Reference:

Explanation:

QUESTION 171

What is the main purpose of a code review?

- A. To provide the technical lead visibility into all code

- B. To identify and review errors with the team
- C. To ensure that all code is checked in simultaneously
- D. To detect logical errors

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 172

What is a benefit of model-driven programmability?

- A. It addresses the static architecture of traditional networks being decentralized and complex.
- B. By modeling data, it ensures that vast quantities of data are usable for monitoring.
- C. It provides a programmatic and standards-based way of writing configurations to any network device.
- D. It simplifies management and operations by decoupling the networking hardware from its control mechanism.

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 173

A new application is being developed that must be hardware independent. The application includes an administrative component which is accessed using a Windows desktop GUI. Installation and management of the environment must be fully automated. Which application deployment type meets the requirements?

- A. bare metal
- B. virtual Python environment
- C. container
- D. virtual machine

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 174

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Which tool is used to block all traffic to the domain by using a single API call?

- A. Cisco ISE
- B. Cisco Firepower
- C. Cisco AMP
- D. Cisco Umbrella

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 175

What is a difference between a synchronous API and an asynchronous API?

- A. An asynchronous API can make offline calls while synchronous APIs do not have this capability.
- B. Synchronous API calls are returned immediately while asynchronous calls do not guarantee an immediate response.
- C. Synchronous API calls require an authentication header to be sent while asynchronous calls do not require authentication.
- D. An asynchronous API can make a larger number of calls in a specified time period than a synchronous API.

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 176

Which HTTP response code should be returned when the request is completed, but there is no content to send for the request?

- A. 100
- B. 204
- C. 302
- D. 402

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 177

What is the purpose of the first three pairs of digits in a MAC address?

- A. defines a routing identifier for the client
- B. indicates the IP address of the client in Hex
- C. defines packet forwarding priority sent or received by the adapter
- D. indicates vendor of the network card or adapter

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 178

```
HTTP/1.1 200 OK
Date: Mon, 27 Jul 2009 12:28:53 GMT
Server: nginx
Last-Modified: Wed, 22 Jan 2020 19:15:56 GMT
Content-Length: 88
Content-Type: application/json
Connection: keep-alive

{
    "id": "y123987jdl",
    "status": "online",
    "type": "switch"
}
```

Which data is specified in the response header?

- A. {
"id": "y123987jdl". HTTP/1.1 200 OK

```
"status: "online",
"type": "switch"
}
B. HTTP/1.1 200 OK
C. "type", "switch"
D. Content-Type
```

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 179

What are two considerations when selecting the "best route" for a network device to reach its destination? (Choose two.)

- A. MAC address
- B. metrics
- C. administrative distance
- D. IP address
- E. subnet mask

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation:

QUESTION 180

Refer to the exhibit.

API Documentation:

Integrations are how you request permission to invoke the Webex REST API on behalf of another Webex Teams user. To do this in a secure way the API supports the OAuth 2 standard which allows third-party integrations to get a temporary access token for authenticating API calls instead of asking users for their password.

Script:

```
01 import requests  
02  
03 base_url = "https://webexapis.com/v1"  
04 header = {"Key": "Value"}  
05  
06 url = "{}{}".format(base_url, "/teams")  
07 print(requests.get(url, headers=header).status_code)
```

A developer creates a Python script that queries Cisco Webex. When the script is executed, a 401 code is returned. After troubleshooting, the developer discovers that the service is missing privileges. Which change to the header in line 4 of the script results in the code 200? A)

header = {"Authentication": "Bearer YOUR_TOKEN"}

B)

header = {"Authentication Bearer": "YOUR_TOKEN"}

C)

header = {"Authorization": "Bearer YOUR_TOKEN"}

D)

header = {"Authorization Bearer": "YOUR_TOKEN"}

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

D. Option D

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 181

Refer to the exhibit.

```
>>> response_data = requests.get(base_url + request_url, cookies=cookies)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'requests' is not defined
>>>
```

A Python code has been written to query a device. The executed code results in the error shown.

Which action resolves the problem?

- A. import json
- B. requests("GET", base_url + request_url, cookles=cookies)
- C. pip install requests
- D. import requests

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 182

What are two functions of a routing table on a network device? (Choose two.)

- A. It lists entries more than two hops away.
- B. It lists the routes to a particular destination.

- C. It lists the routes to drop traffic.
- D. It lists hosts that are one hop away.
- E. It lists the static and dynamic entries.

Correct Answer: BE

Explanation

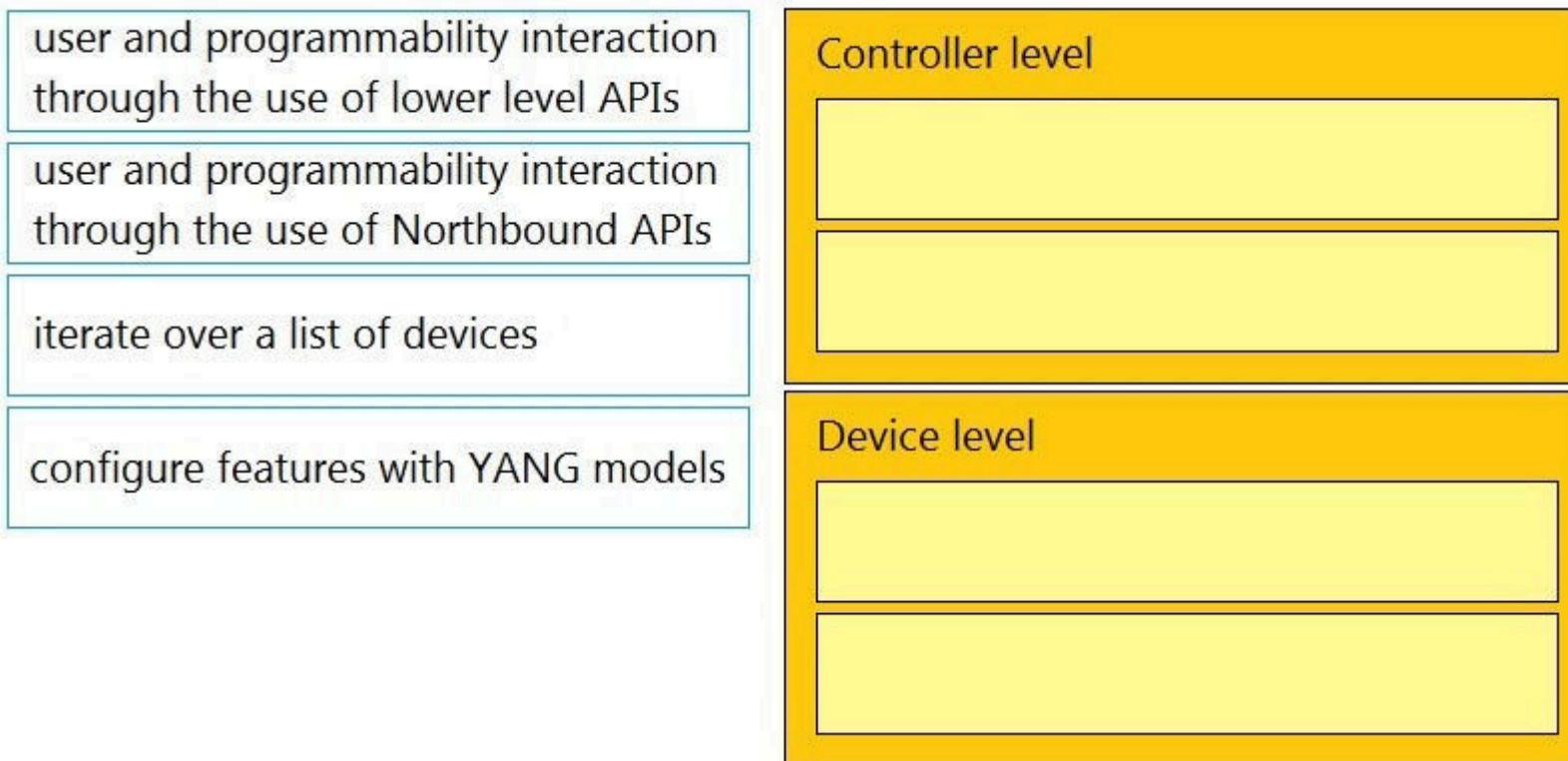
Explanation/Reference:

Explanation:

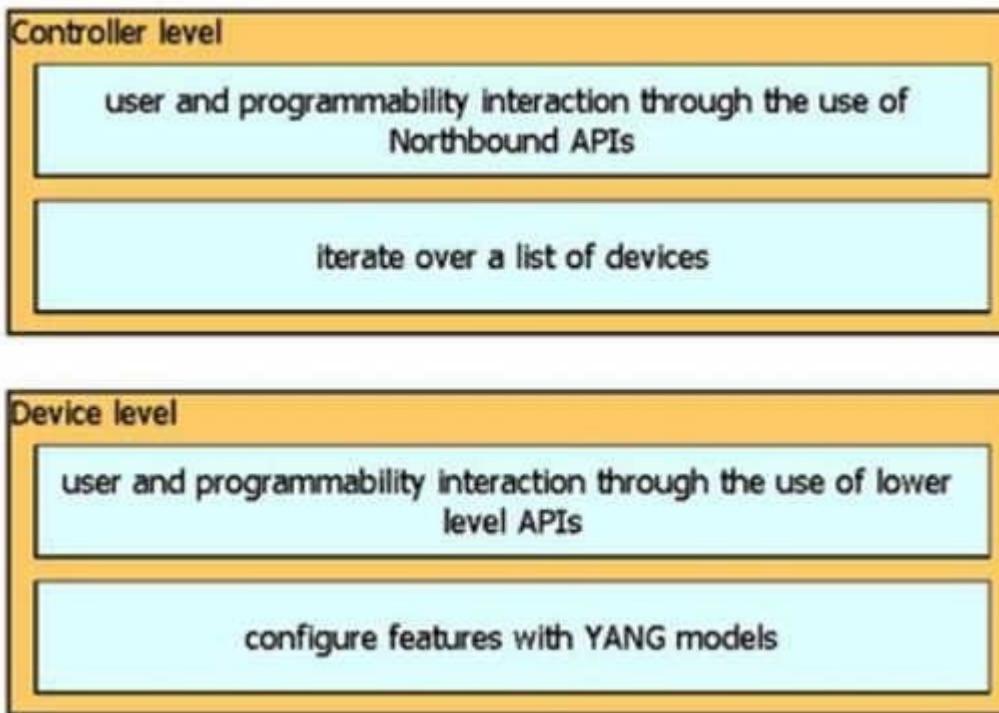
QUESTION 183

DRAG DROP

Drag and drop the types of management from the left onto the levels at which they are performed on the right.



A.



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 184

DRAG DROP

Refer to the exhibit.

List Messages

Lists all messages in a room. Each message will include content attachments if present.

The list sorts the messages in descending order by creation date. Long result sets will be split into pages.

GET /v1/messages

Query Parameters

roomId
string Required
List messages in a room, by ID.

parentId
string
List messages with a parent, by ID.

Request **Response**

```
https://webexapis.com/v1/messages?roomId=Y2IzY29zcGFyazovL3VzL1JPT00vYmJjZWlxYWQtNDNmMS0zYjU4LTkxNDctZjE0YmlwYzRkMTU0&parentid=Y2IzY29zcGFyazovL3VzL01FU1NBR0UvZWM1ZTlzzjAtN2RhMS0xMWU5LTg2NTgtZTkzYzNiODZjZmFm&mentionedPeople=Y2IzY29zcGFyazovL3VzL1BFT1BMRS8yNDImNzRkOS1kYjhLTQzY2EtODk2Yi04NzIIZDI0MGFjNTM&before=2016-04-21T19:01:55.966Z&beforeMessage=Y2IzY29zcGFyazovL3VzL01FU1NBR0UvOTJKYjNiZTAtNDNiZC0xMWU2LThhZTktZGQ1YjNkZmM1Njk&max=100
```

A developer needs to automatically retrieve all of the messages of a Webex room with the roomId of "HY2I2Y292cGFyazovL3Vz397748444YjU5NjAtNTk0ZJ0xMWVhLTk0Mj". Using the Webex API documentation shown, drag and drop the code snippets from below onto the code to complete the Python script to list all of the messages in the room. Not all options are used.

```
import requests

webex_token = "NDALOGV...f0-4434-a696-84fee4047e0a"
room_id = "Y2leY29zcGF...jUSNjAtNTk0Zi0xMWVhLTk0Mj"

url = "https://webexapis.com/v1/ [ ] [ ] = " + [ ]

payload = {}
headers = {
    'Authorization': 'Bearer ' + [ ]
}

response = requests.request("GET", url, headers=headers, data = payload)
print(response.text.encode('utf8'))
```

[]
[]
[]

[]
[]
[]

[]
[]
[]

[]
[]
[]

[]
[]
[]

[]
[]
[]

A.

```
import requests

webex_token = "NDA2OGV...f0-4434-a696-84fee4047e0a"

room_id = "Y21zY29zcGF...jU5NjAtNTk0Zi0xMWVhLTk0Mj"

url = "https://webexapis.com/v1/ messages?" roomId ="" + room_id

payload = {}
headers = {
    'Authorization': 'Bearer ' + webex_token
}

response = requests.request("GET", url, headers=headers, data = payload)

print(response.text.encode('utf8'))
```

room

messages

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 185

While developing a real-Time VoIP application on a Cisco Webex platform, users report that their voice gets chopped or parts of the conversation drop out. Which network constraint is impacting the application?

- A. latency
- B. jitter
- C. capacity
- D. delay

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 186

Which API must an engineer use to change a netmask on a Cisco IOS XE device?

- A. Meraki
- B. RESTCONF/YANG
- C. SD-WAN
- D. DNAC

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 187

Refer to the exhibit.

```
- hosts: servers
  tasks:

    - name: task1
      systemd:
        name: webexbot
        state: stopped

    - name: task2
      apt:
        name: teamsbot

    - name: task3
      apt:
        name: webexbot
        state: absent
        purge: yes
```

A developer must integrate a bot with an internal communication app. The developer wants to replace the webexbot package with the teamsbot package by using

Ansible and prepares a playbook In the first two tasks, the playbook stops the webexbot and verifies that the teamsbot is installed. What is accomplished in the last task of the workflow when the developer runs the Ansible playbook?

- A. stops the webexbot service and uninstalls it and retains its configuration files
- B. installs the webexbot and retains the configuration files
- C. uninstalls the webexbot package and removes its configuration files
- D. searches whether the purge package is available in the repository and uninstalls the webexbot package

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 188

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

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

Correct Answer: BE

Explanation

Explanation/Reference:

Explanation:

QUESTION 189

Refer to the exhibit.

```

module ietf-ip {
    namespace "urn:ietf:params:xml:ns:yang:ietf-ip";
    prefix ip;
    import ietf-interfaces {
        prefix if;
    }
    augment "/if:interfaces/if:interface" {
        container ipv4 {
            leaf enabled {
                type boolean;
                default true;
            }
            list address {
                key "ip";
                leaf ip {
                    type inet:ipv4-address-no-zone;
                }
                choice subnet {
                    mandatory true;
                    leaf prefix-length {
                        type uint8 {
                            range "0..32";
                        }
                    }
                    leaf netmask {
                        type yang:dotted-quad;
                    }
                }
            }
        }
    }
}

module ietf-interfaces {
    namespace "urn:ietf:params:xml:ns:yang:ietf-interfaces";
    prefix if;
    typedef interface-ref {
        type leafref {
            path "/if:interfaces/if:interface/if:name";
        }
    }
    container interfaces {
        list interface {
            key "name";
            leaf name {
                type string;
            }
            leaf description {
                type string;
            }
            leaf type {
                type identityref {
                    base interface-type;
                }
                mandatory true;
            }
            leaf enabled {
                type boolean;
                default "true";
            }
        }
    }
}

```

Which JSON snippet configures a new interface according to YANG model? A)

```
"ietf-interfaces:interface": {
    "name": "Loopback100",
    "enabled": true,
    "ietf-ip:ipv4": [
        "address": [
            {
                "ip": "10.255.254.1",
                "netmask": "255.255.255.0"
            }
        ]
    ]
}
```

B)

```
"ietf-interfaces": {
    interface": {
        "name": "Loopback100",
        "enabled": true,
        "ietf-ip": {
            ipv4": {
                "address": [
                    {
                        "ip": "10.255.254.1",
                        "netmask": "255.255.255.0"
                    }
                ]
            }
        }
    }
}
```

C)

```
"interface": {  
    "name": "Loopback100",  
    "enabled": true,  
    "ipv4": {  
        "address": [  
            {  
                "ip": "10.255.254.1",  
                "netmask": "255.255.255.0"  
            } ]  
        }  
    }  
}
```

D)

```
"ietf-interfaces:interface": {
    "name": "Loopback100",
    "enabled": true,
    "ietf-ip:ipv4:address": [
        {
            "ip": "10.255.254.1",
            "netmask": "255.255.255.0"
        }
    ]
}
```

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

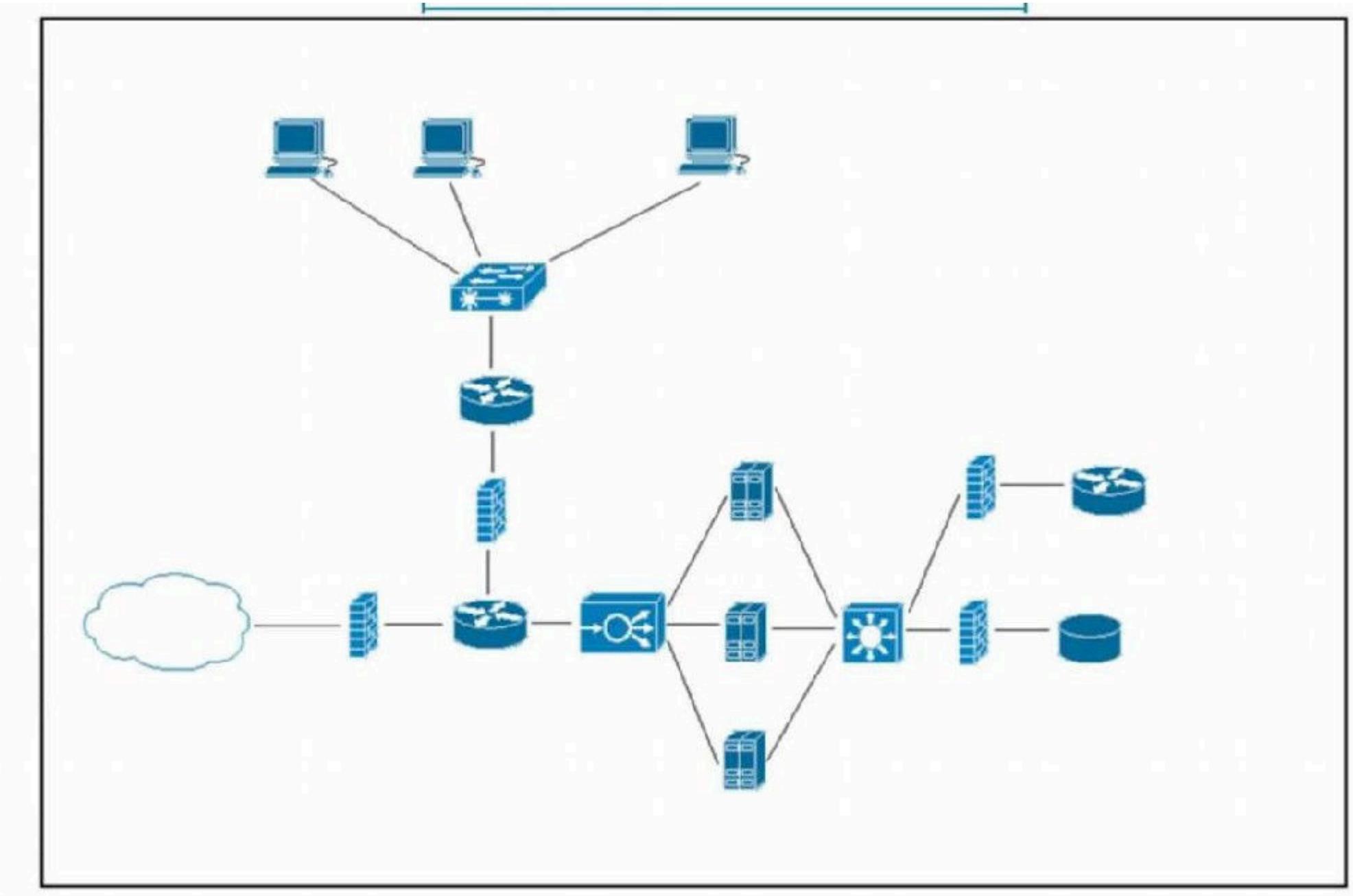
Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 190



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Refer to the exhibit. What does the load balancer enable in the network topology?

- A. hosted application to access Internet services
- B. external requests to be routed to the application servers
- C. workstations to access the Internet
- D. application to access the database server

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 191

What does a load balancer distribute in a network environment?

- A. outgoing connections to the network
- B. incoming traffic across multiple servers
- C. different TCP connections to the routers
- D. traffic in the network by leveraging the switch architecture

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 192

A developer needs a list of clients connected to a specific device in a Meraki network. After making a REST API call, the developer receives an unfamiliar response code. Which Cisco DevNet resource should be used to identify the meaning of the response code?

- A. API documentation
- B. Sandbox
- C. Learning Labs
- D. Code Exchange

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 193

Refer to the exhibit.

Code:

```
import requests

url = 'https://en.wikipedia.org/api/rest_v1/page/title/Cisco_Systems'
s = requests.Session()

def get_json(session=None, url="https://example.com"):
    try:
        if not session or type(session) is not requests.sessions.Session:
            raise Exception("Invalid session type")

        r = session.get(url)

        if r.status_code < 200 or r.status_code > 307:
            raise Exception("Status Code not within 2xx and 3xx")

        return r.json()

    except requests.exceptions.RequestException as e:
        raise e("Request failed")
    finally:
        session.close()

if __name__ == "__main__":
    items = get_json(session=s, url=url)
```

payload:

```
{"items": [{"title': 'Cisco_Systems', 'page_id': 51746, 'rev': 930604297,
'tid': '58b40b30-20e7-11ea-a7a9-f1850c7cfe85', 'namespace': 0, 'user_id':
19450869, 'user_text': 'Dhruvh',
'timestamp': '2019-12-13T16:47:52Z', 'comment': '/* 1984-1995: Origins
and initial growth */', 'tags': [], 'restrictions': [], 'page_language':
'en', 'redirect': False}]}  
[{"page_id": 51746, "page_title": "Cisco_Systems", "page_content": "The Cisco Systems logo consists of a stylized red 'C' followed by the word 'Cisco' in a serif font. The 'C' is composed of three horizontal bars of increasing length from left to right, with a small circle at the top right corner. The 'Cisco' text is in a bold, black, serif font."}]
```

Which command needs to be placed on the box where the code is missing to output the value of page_id in the Python 3.7 script?

- A.

```
print(items['items']['page_id'])
```
- B.

```
print(items.get('items').get('page_id'))
```
- C.

```
print(items.get('items')[0].get('page_id'))
```
- D.

```
print(items['items']['page_id'].keys())
```

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 194

Which protocol runs over TCP port 22?

- A. SSH
- B. HTTP
- C. Telnet
- D. NETCONF

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 195

What is a benefit of organizing code into modules?

- A. improves overall performance
- B. reduces the length of code
- C. enables code to be multifunctional
- D. enables the reuse of code

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 196

Which tool allows changes to the configuration management toolset to be tested?

- A. Cisco VIRL
- B. NAPALM
- C. Ansible
- D. pyATS

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 197

A developer creates a script that configured multiple Cisco IOS XE devices in a corporate infrastructure. The internal test environment is unavailable, and no maintenance window is available to test on a low-priority production environment. Which resource is used to test the code before it is applied to the production environment?

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

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 198

What are two benefits of using VLANs? (Choose two.)

- A. limits the devices that can join the network
- B. segments the broadcast domain extends the broadcast domain
- C. allows all network devices to be accessible from any host on the network
- D. enables the logical grouping of devices that belong to different Layer 2 devices

Correct Answer: BD

Explanation

Explanation/Reference:

Explanation:

QUESTION 199

In the test-driven development model, what is changed after a test fails?

- A. test
- B. schedule
- C. project requirements
- D. code

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 200

What is a requirement when authenticating a RESTCONF API session with a router that runs Cisco IOS XE Software?

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

Correct Answer: B

Explanation

Explanation/Reference:

Explanation:

QUESTION 201

Which protocol must be allowed on the firewall so that NTP services work properly?

- A. ICMP
- B. BGP
- C. UDP
- D. TCP

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 202

What is a benefit of test-driven development?

- A. early customer involvement
- B. increased code quality
- C. faster releases that have minimal features
- D. strict adherence to product requirements

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 203

Which configuration management tool has an agentless capability?

- A. Chef
- B. Puppet
- C. Ansible
- D. CFEngine

Correct Answer: C

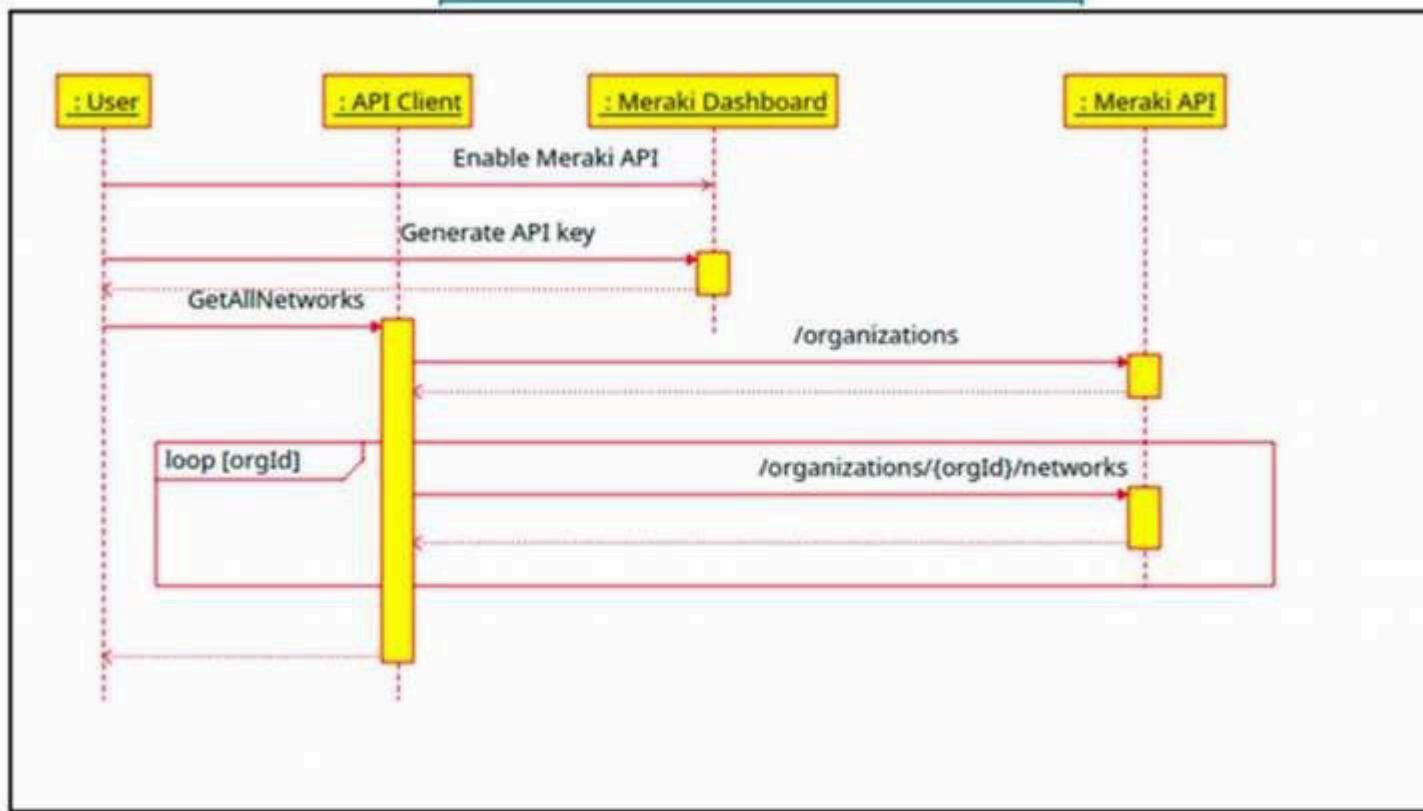
Explanation

Explanation/Reference:

Explanation:

QUESTION 204

Refer to the exhibit.



The Cisco Meraki API manages two organizations. In each organization, two independent networks are defined. How many calls to the /organizations/(orgid)networks endpoint will be run parallel by the GetAllNetworks function of the API client?

- A. 0
- B. 1

- C. 2
- D. 4

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 205

DRAG DROP

Refer to the exhibit.

```
SDK Documentation:  
  
Class: Devices  
  
Device List: get_device_list()  
Get device: get_device_by_id(id)  
Delete device: delete_device_by_id(id)  
Device status: inventoryStatusDetail  
Device Parameters:  
    id  
    upTime  
    type
```

A Python script must delete all Cisco Catalyst 9300 Series switches that have an uptime that is greater than 90 days. The script must also query for the status of all the other devices. Drag and drop the code from the bottom onto the bottom box the code is missing to complete the script. Not all options are used.

```
from dnacentersdk import DNACenterAPI

device_type = "Cisco Catalyst 9300 Switch"
api_session = DNACenterAPI(
    base_url="https://sandboxdnac.cisco.com",
    username="user",password="password"
)

devices = [REDACTED]

for device in devices:
    if int(device.upTime.split()[0]) > 90:
        if device.type == device_type:
            output = [REDACTED]
            print(output)

    else:
        selected_device = [REDACTED]
        output = [REDACTED]
        print(output)
```

```
selected_device.response.inventoryStatusDetail(device)
```

```
api_session.devices.get_device_list().response
```

```
api_session.devices.delete_device_by_id(device.id)
```

```
api_session.devices.get_device_by_id(device.id)
```

```
selected_device.response.inventoryStatusDetail
```

A.

```
from dnacentersdk import DNACenterAPI

device_type = "Cisco Catalyst 9300 Switch"
api_session = DNACenterAPI(
    base_url="https://sandboxdnac.cisco.com",
    username="user", password="password"
)

devices = api_session.devices.get_device_list().response

for device in devices:
    if int(device.upTime.split()[0]) > 90:
        if device.type == device_type:
            output = api_session.devices.delete_device_by_id(device.id)
            print(output)

    else:
        selected_device = api_session.devices.get_device_by_id(device.id)
        output = selected_device.response.inventoryStatusDetail
        print(output)

selected_device.response.inventoryStatusDetail(device)
```

Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 206

In which two ways is an application characterized when interacting with a webhook? (Choose two.)

- A. codec
- B. receiver
- C. transaction monitor
- D. processor
- E. listener

Correct Answer: BE

Explanation

Explanation/Reference:

Explanation:

QUESTION 207

DRAG DROP

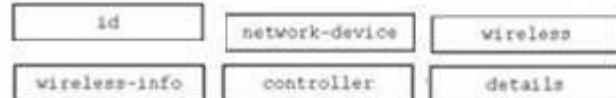
Refer to the exhibit.

Returns the wireless lan controller info with given device ID:

```
{  
    "response": {  
        "adminEnabledPorts": [ 0 ],  
        "apGroupName": "string",  
        "deviceId": "string",  
        "ethMacAddress": "string",  
        "flexGroupName": "string",  
        "id": "string",  
        "instanceTenantId": "string",  
        "instanceUuid": "string",  
        "lagModeEnabled": true,  
        "netconfEnabled": true,  
        "wirelessLicenseInfo": "ADVANTAGE",  
        "wirelessPackageInstalled": true  
    },  
    "version": "string"  
}
```

Drag and drop the code from the bottom onto the blanks in the code to construct a cURL command using the Cisco DNA Center API. which will provide the details of a WLAN controller with Id af397748444. Not at options are used.

```
curl -L --request GET \
--url https://dna/intent/api/v1/[ ]/[ ]/[ ] \
--header 'Content-Type: application/json' \
--header 'Accept: application/json'
```



A.

```
curl -L --request GET \
--url https://dna/intent/api/v1/ [ ]/ [ ]/ [ ]/ [ ] \
--header 'Content-Type: application/json' \
--header 'Accept: application/json'
```



Correct Answer: A

Explanation

Explanation/Reference:

QUESTION 208

Refer to the exhibit.

```
import requests
from requests.auth import HTTPBasicAuth
from config import url, username, password
response = requests.login(url, auth=HTTPBasicAuth(username, password), verify=False)
print response.status_code
```

The script returns an output of 401. To use the supplied URL, an HTTP GET request must Be sent with an Authorization header. The header value is a Base64 encoded concatenation of the username and password. Which action must be taken to return an output of 200?

- A. Change the verify=False setting in the request to verify=True to enable HTTP Basic authentication
- B. Modify the method from LOGIN to GET and supply the username ;password value as JSON payload
- C. Verify that the username and password values imported from the configuration file are still valid.
- D. Insert an Authorization header with the values username password from the supplied configuration file.

Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

QUESTION 209

Refer to the exhibit.

```
import requests
from requests.auth import HTTPBasicAuth
headers = {'Content-Type': 'application/json'}
base_url = 'https://10.1.2.3'
auth_url = '/dna/system/api/v1/auth/token'
devices_url = '/dna/intent/api/v1/network-device'

token = requests.post(
    base_url + auth_url, headers=headers,
    auth=HTTPBasicAuth(username="admin", password="DevNet123"))
data = token.json()

query_string_params = {'platformId': 'C9500-40X'}
response = requests.get(
    base_url + devices_url, headers=headers,
    params=query_string_params)
print(f'{response.code}')
```

A network engineer must manage the network devices. The engineer prepares a Python script to authenticate to the Cisco DNA Center API and request a device list. The device request fails and returns error code 401. Which action solves the problem?

- A. Update the API URL, which matched the API endpoint for device list.
- B. Send the request to another network in case there are reachability issues.
- C. Send the Authentication header in the request with a valid configuration.
- D. Update the credentials that are already supplied and retry the request.

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 210

Refer to the exhibit.

Generating Client ID and API Key:

- Log in to your AMP for Endpoints Console.
- Go to Accounts > Business Settings.
- Click Configure API Credentials under Features to generate the Client ID and secure API Key.

Once you have the API client ID and API key, you can make the API calls as follows:

```
https://<your_client_id>:<your_api_key>@<api_endpoint>
```

Alternatively you can use Basic HTTP Authentication. Base 64 encode the string ":", and send that prefixed with the string "Basic" as the authorization header. For instance, if your client_id was 1234, and your api_key was "atest", then it would be base64 encoded to "MTIzNDphdGVzdA==", and your header would be:

```
Authorization: Basic MTIzNDphdGVzdA==
```

The documentation outlines how to use credentials for the AMP API Which script successfully performs an API call using basic authentication?

A.

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_login_password = '10g1n_p@ssw0rd'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_client_id, amp_login_password))
print(request.json())
```

B.

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_api_key = 'a1b2c3d4-e5f6-g7h8-i9j0-k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url)
print(request.json())
```

C.

```
import requests
amp_auth_token = 'a1b2c3d4e5f6g7h8i9j0 k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_auth_token))
print(request.json())
```

D.

```
import requests
amp_client_id = 'a1b2c3d4e5f6g7h8i9j0'
amp_api_key = 'a1b2c3d4-e5f6-g7h8-i9j0-k1l2m3n4o5p6'
url = 'https://api.amp.cisco.com/v1/version'
request = requests.get(url,
    auth=(amp_client_id, amp_api_key))
print(request.json())
```

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

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 211

Refer to the exhibit.

```
--- README.md-repo 2019-10-06 21:15:59.000000000 +0100
+++ README.md      2019-10-06 21:07:35.000000000 +0100
@@ -88,8 +88,6 @@



-
-
## Troubleshooting

### CMake
@@ -162,4 +160,13 @@



## References

##### Mosquitto
+
+[github] (https://github.com/eclipse/mosquitto)
+[homepage] (https://mosquitto.org)
+
##### MQTT
+
+[organisation] (http://mqtt.org)
+
```

The output of the diff-u README.md-repo README.md command is shown. The original file was 165 lines long. How many lines are in the edited copy of the file?

- A. 162
- B. 165
- C. 172
- D. 173

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

QUESTION 212

```
1 import requests
2
3 headers = {"X-Cisco-Meraki-API-Key": "KEY1234"}
4 BASE_URL = "https://api-mp.meraki.com/api/v1"
5 FIRST_URL = "/organizations"
6 SECOND_URL = "/networks"
7 THIRD_URL = "/clients"
8
9 def first_loop(info):
10     for item in info:
11         if item["name"] == "ACME":
12             URL = BASE_URL + FIRST_URL + "/" + item["id"] + "/" + SECOND_URL
13             response = requests.request("GET", URL, headers=headers)
14             return second_loop(response.json())
15
16 def second_loop(info):
17     for item in info:
18         if item["name"] == "BLDG21":
19             URL = BASE_URL + SECOND_URL + "/" + item["id"] + "/" + THIRD_URL
20             response = requests.request("GET", URL, headers=headers)
21             return third_loop(response.json())
22
23 def third_loop(info):
24     for item in info:
25         return item
26
27 response = requests.request("GET", BASE_URL + FIRST_URL, headers=headers)
28 info = first_loop(response.json())
29 for item in info:
30     print(item["id"])
```

Refer to the exhibit. A network engineer must collect information from the network. The engineer prepares a script to automate workflow by using Cisco Meraki API. The script must run over nested loops to collect organization and network information and uses the collected data for final collection. Which process is being automated by using the Python script?

- A. Gather the IDs of the ACME organization, the BLDG21 network, and the clients on the network
- B. Provide the BLDG21 network information if it is part of the ACME organization
- C. Collect the IDs of the clients on the BLDG21 network
- D. List the IDs from the ACME organization

Correct Answer: A

Explanation

Explanation/Reference:

Explanation:

QUESTION 213

Refer to the exhibit.

```
1 #!/bin/bash
2 apt install nginx
3 export AVAILABLE_SITES_DIR = '/etc/nginx/sites-available'
4 export ENABLED_SITES_DIR = '/etc/nginx/sites-enabled'
5 cd /opt/nginx
6 cat sites.txt | while read site;
7 do
8 cp template.conf "$AVAILABLE_SITES_DIR/$site";
9 ln -s "$AVAILABLE_SITES_DIR/$site" "$ENABLED_SITES_DIR";
10 chown www-data:www-data "$AVAILABLE_SITES_DIR/$site";
11 done
```

An engineer must configure a load balancer server. The engineer prepares a script to automate workflow by using Bash. The script installs the nginx package, moves to the /opt/nginx directory, and reads the sites M We (or further processing Based on the script workflow, which process is being automated within the loop by using the information mi sites txt?

- A. creating a new Me Based on template .conf in the /etc/nginx/sites_enabled directory for each lie in the sites txt file. and then changing the file execution permission.
- B. creating a Me per each the in sites txt with the information in template conf. creating a link for the previously created file. and then changing the ownership of the created files
- C. using the content of the file to create the template conf file. creating a link from the created file to the /etc/nginx/files.enabled. and then changing the file execution permissions.
- D. using the information in the file to create a set of empty files in the /etchnginx/sites_enabled directory and then assigning the owner of the file.

Correct Answer: B

Explanation

Explanation/Reference: