Cisco Devnet Associate 200-901 (123Q)

Vendor : Cisco

Exam Name : DevNet Associate

Exam Code : 200-901

File : Premium



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Exam A

QUESTION 1
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 provides tooling to automate application builds and infrastructure provisioning.
C. It allows multiple engineers to work against the same code and configuration files and manage differences and conflicts.
D. It provides a system to track User Stories and allocate to backlogs.
E. It allows developers to write effective unit tests.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
DRAG DROP

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

Select and Place:

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.

Correct Answer:

User	Queue
Dialog	SystemInfo
Media	User
Queue	Team
Team	Dialog
SystemInfo	ClientLogs
ClientLogs	Media

Section: (none)
Explanation

Explanation/Reference:
Reference: https://developer.cisco.com/docs/finesse/#!cisco-finesse-desktop-apis

QUESTION 3
Which product provides network controller-level management features?

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

Correct Answer: B
Section: (none)
Explanation

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

QUESTION 4
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
Which description of a default gateway is true?

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

Correct Answer: B
Section: (none)
Explanation

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

QUESTION 6
Which two statements are true about Cisco UCS Manager, Cisco UCS Director, or Cisco Intersight APIs? (Choose two.)

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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
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 7
On which port does NETCONF operate by default?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
Which device is a system that monitors and controls incoming and outgoing network traffic based on predetermined security roles?

A. router
B. switch
C. load balancer
D. firewall

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
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. map
B. list
C. json
D. dict

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 10
When a Cisco IOS XE networking device is configured using RESTCONF, what is the default data-encoding method?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
Which two elements are foundational principles of DevOps? (Choose two.)

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

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
In DNS, which record specifies an alias that refers to another name that ultimately resolves to an IP address?

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

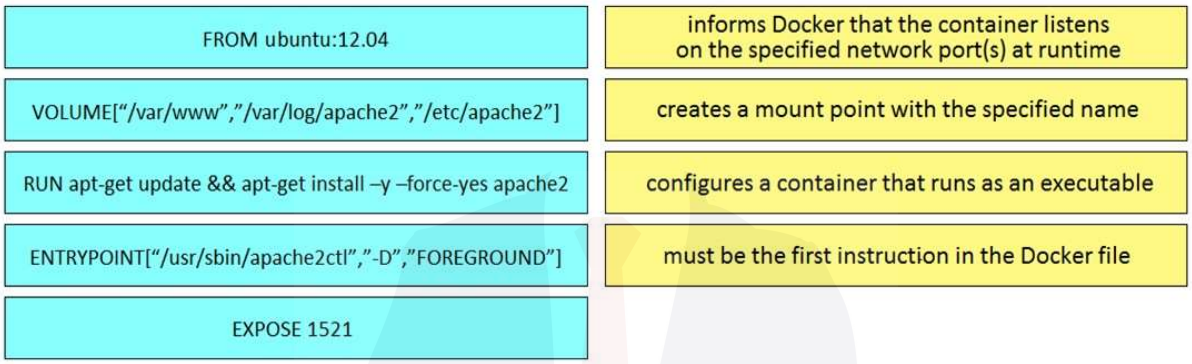
Correct Answer: A
Section: (none)
Explanation

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

QUESTION 13
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
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"
      }
    ]
}
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.guru99.com/json-vs-xml-difference.html

QUESTION 15
Which statement describes the benefit of using functions in programming?

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

Correct Answer: C

Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
FILL BLANK

Fill in the blanks to complete the Python script to request a service ticket using the APIC-EM REST API for the user “devnetuser”.

```
import requests
import json
controller = ‘devnetapi.cisco.com/sandbox/apic_em’
url = “https://” + controller + “api/va/ticket”
payload = {‘username’: ‘_____’, ‘password’: ‘370940885’}
header = {‘Content-type’: ‘application.json’}
response = _____.post(url, data=json.dumps(payload), \
headers= _____, verify=False)
r_json = response.json()
print(r_json)
ticket = r_json[“response”][“serviceTicket”]
print(ticket)
```

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:

devnetuser
requests
header

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

QUESTION 17
Which platform is run directly using a hypervisor?

A. bare metal systems
B. virtual machines
C. containers
D. applications

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
What are two advantages of version control software? (Choose two.)

A. It supports tracking and comparison of changes in binary format files.
B. It allows new team members to access the current code and history.

C. It supports comparisons between revisions of source code files.
D. It provides wiki collaboration software for documentation.
E. It allows old versions of packaged applications to be hosted on the Internet.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
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()**" functions are defined in fish.py and cat.py? (Choose two.)

A.

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("single_request_timeout must be positive int
168         self._single_request_timeout = value
169
```

B.

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         assert value is None or value > 0
166         self._single_request_timeout = value
167
```

C.

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         if value is not None and value <= 0:
166             raise ValueError("single_request_timeout must be positive int
167         self._single_request_timeout = value
168
169
```

D.

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
```

E.

file: cat.py

```
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 int
179         self._single_request_timeout = value
180
```

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
What are two benefits of managing network configuration via APIs? (Choose two.)

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

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
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. Loop through the returned list of network devices and, for each device, print the device name and management IP address.
B. Count and print the total number of available devices.
C. For each device that is returned, display the device type and associated management IP address.
D. Iterate over a list of network devices and write all device names and management IP addresses to an output file.

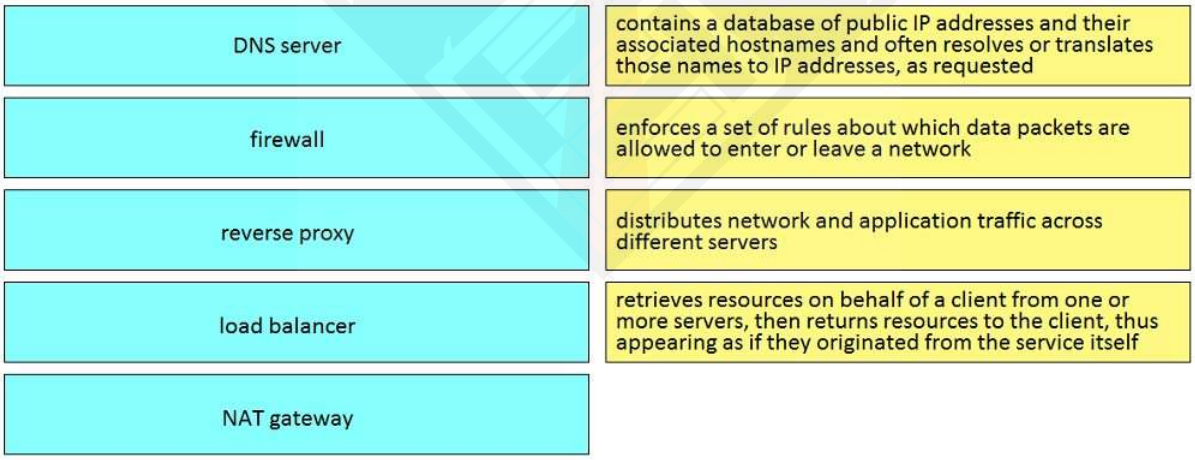
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

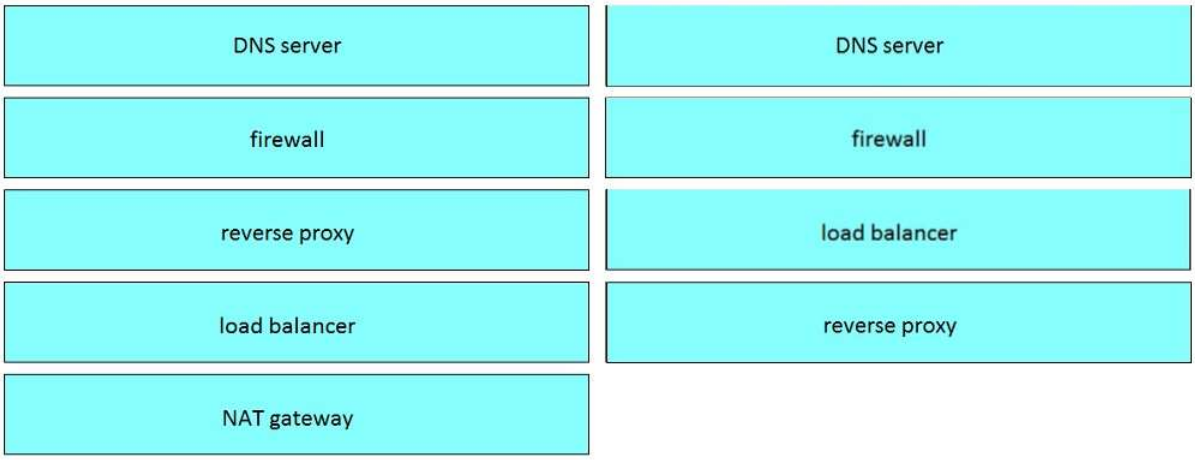
QUESTION 22
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
FILL BLANK

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

```
curl -X _____________ -H " __________: application/json" \
-H " ________: Bearer AbCdEf123456" https://localhost/api/myresource
```

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:

GET
Accept
Authorization

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

QUESTION 24
Which model-driven programmability protocol does Cisco IOS XE Software support?

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

Correct Answer: A
Section: (none)
Explanation

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

QUESTION 25
Which two types of NAT are used in a network? (Choose two.)

A. routed NAT
B. static NAT
C. multicast NAT
D. normal NAT
E. dynamic NAT

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

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

QUESTION 26
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. BGP
C. OpenFlow
D. topology

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://github.com/CiscoDevNet/dnav3-code/blob/master/intro-mdp/yang/models/Cisco-IOS-XE-interfaces-oper.yang

QUESTION 27
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. Reverse engineer and rewrite the code logic.

C. Using functions, rewrite any pieces of code that are repeated.
D. Modify the code to use loops.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
Which CI/CD tool is an automation tool used to build, test, and deploy software?

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

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 29
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 ZGV27HKvCGVyOkMXc2NVMTIZNOU=' -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 IOS XE device is shown. Which statement is correct if the RESTCONF interface responds with a 204 status code?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1611/

b_1611_programmability_cg/restconf_programmable_interface.html

QUESTION 30
What is the purpose of the Cisco VIRL software tool?

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

Correct Answer: C
Section: (none)
Explanation

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

QUESTION 31
What is the purpose of a MAC address?

A. to uniquely identify a switch in a LAN
B. to uniquely identify a router in a LAN
C. to uniquely identify a network interface in a LAN
D. to uniquely identify a device on the Internet

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
Which two NETCONF operations cover the RESTCONF GET operation? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

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

QUESTION 33
Which two statements about JSON and XML are true? (Choose two.)

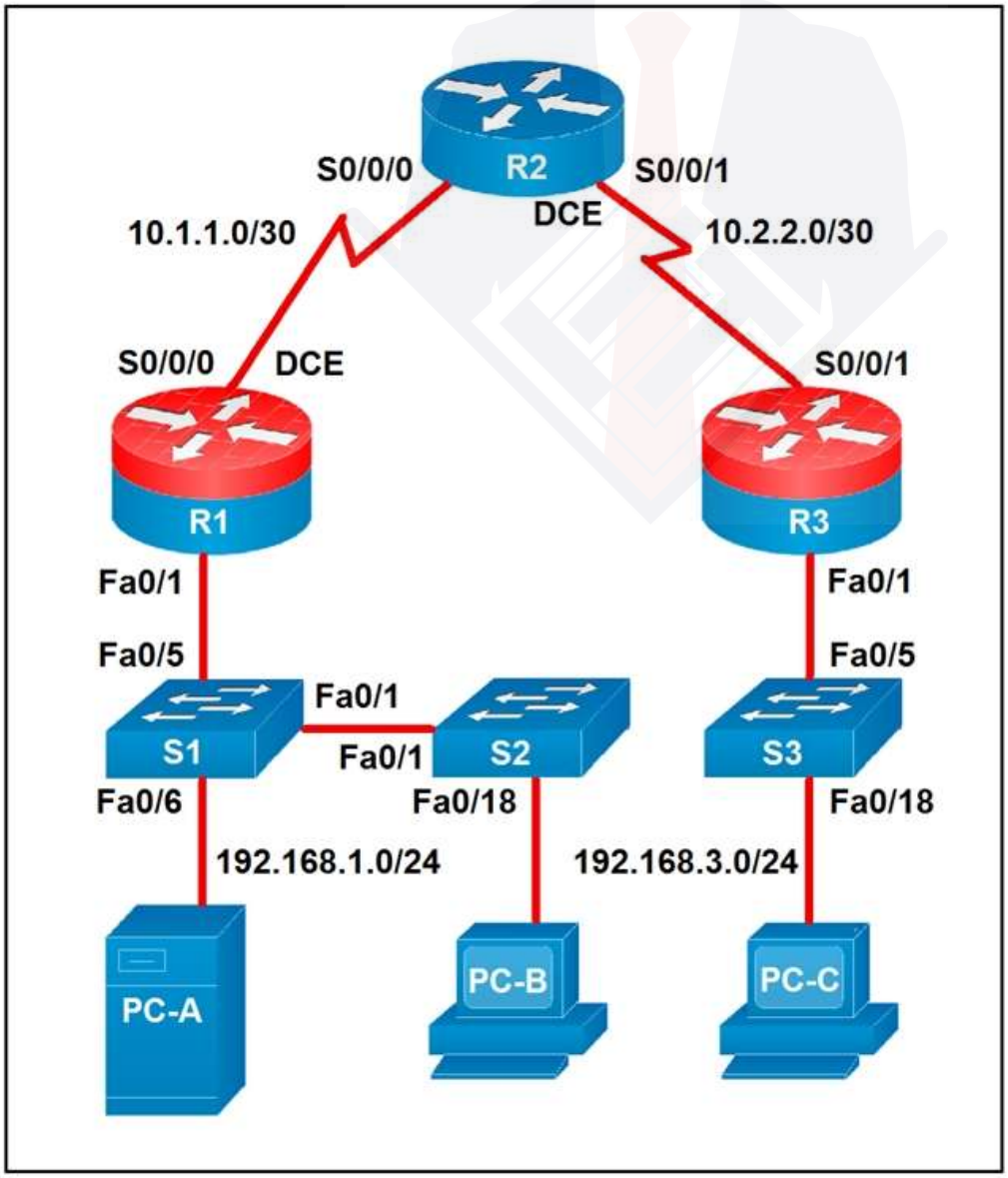
A. The syntax of JSON contains tags, elements, and attributes.
B. XML objects are collections of key-value pairs.
C. JSON objects are collections of key-value pairs.

D. JSON arrays are an unordered set of key-value pairs.
E. The syntax of XML contains tags, elements, and attributes.

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
Refer to the exhibit.



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

A. The subnet address of PC-B has 18 bits dedicated to the network portion.
B. One of the routers has two connected serial interfaces.

C. R1 and R3 are in the same subnet.
D. PC-A and PC-B are in the same subnet.
E. The subnet of PC-C can contain 256 hosts.

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
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 server is running out of disk space.
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 update utility is trying to use a proxy to access the internal resource.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
Which line is an example of the start of a chunk from a unified diff?

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

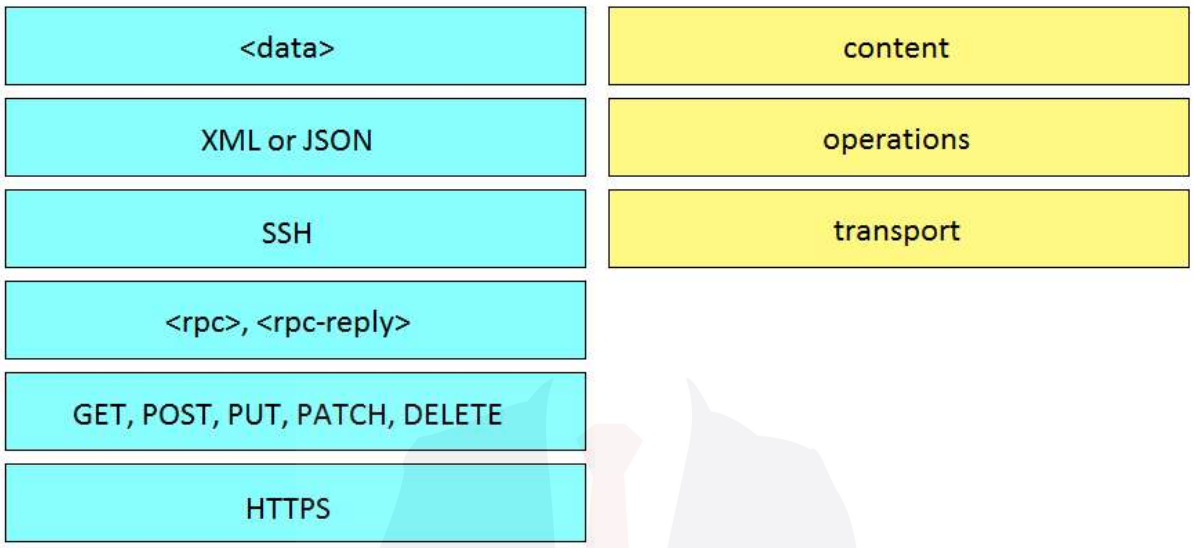
Correct Answer: B
Section: (none)
Explanation

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

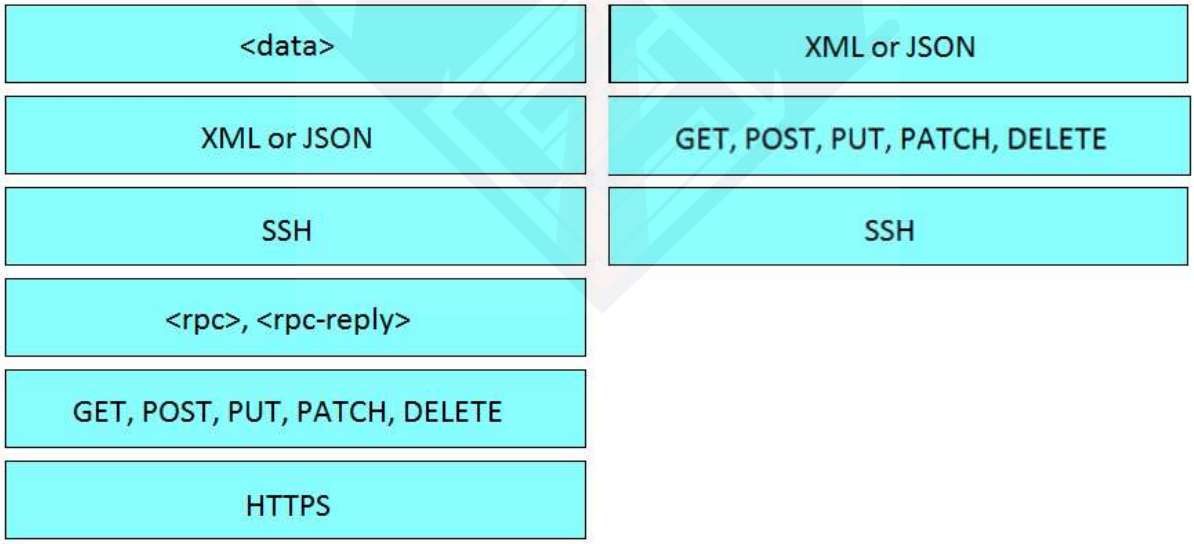
QUESTION 37
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
What is the benefit of edge computing?

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

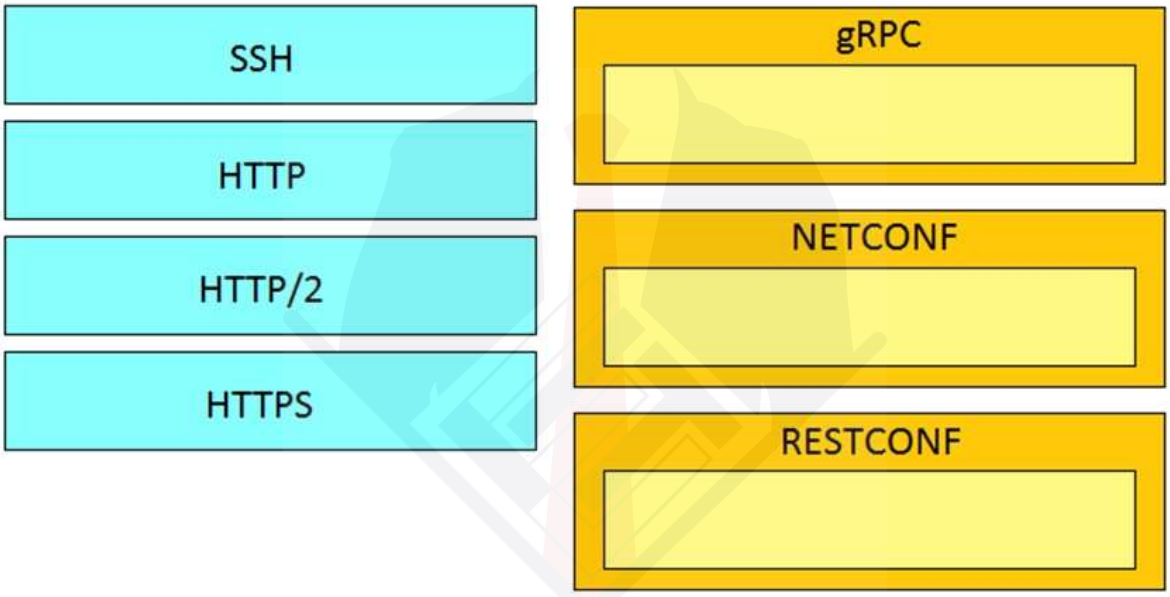
Correct Answer: A
Section: (none)
Explanation

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

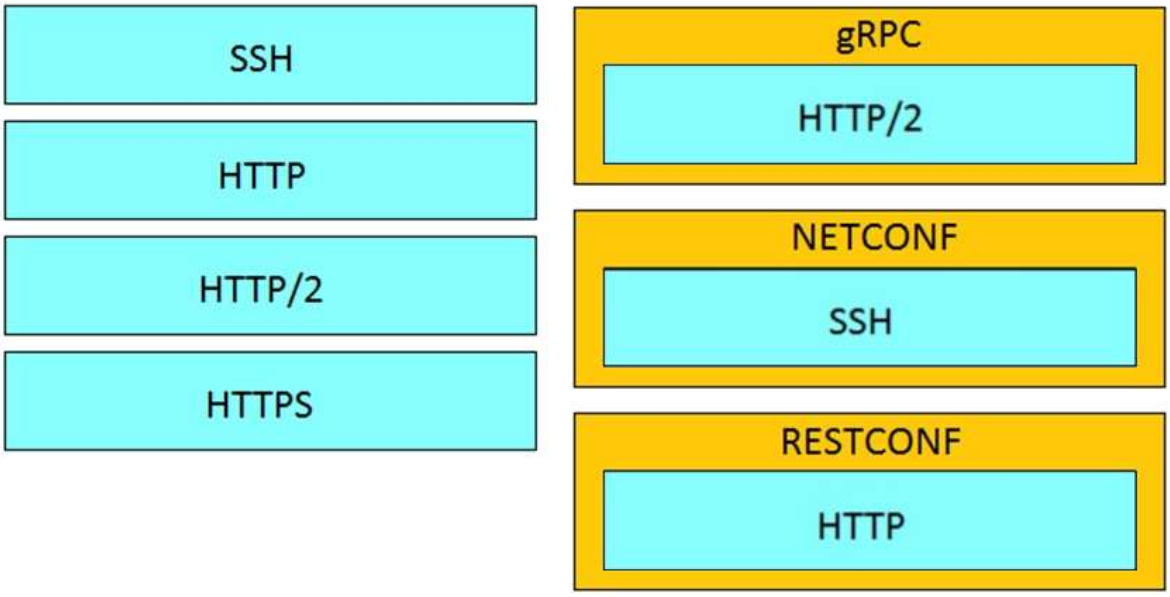
QUESTION 39
DRAG DROP

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.

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2017/pdf/BRKSDN-2119.pdf slide 49

QUESTION 40
FILL BLANK

Fill in the blanks to complete the statement.

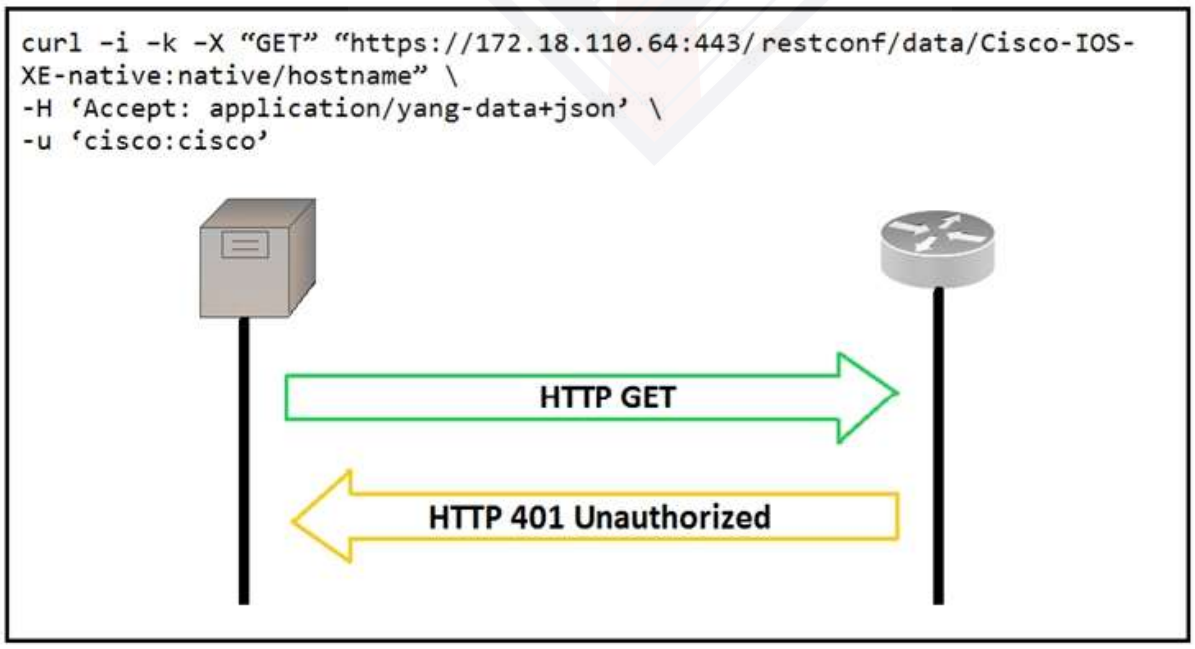
Given a username of “devnet” and a password of “cisco123”, applications must create a base64 encoding of the string “_____” when sending HTTP requests to an API that uses _____ authentication.

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:
YWRtaW46Y2lzY28xMjM
Basic

Reference: https://www.cisco.com/c/en/us/td/docs/net_mgmt/elastic_services_controller/4-1/install/guide/Cisco-Elastic-Services-Controller-Install-Upgrade-Guide-4-1/Cisco-Elastic-Services-Controller-Install-Upgrade-Guide-3-0_chapter_01011.html

QUESTION 41
Refer to the exhibit.



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

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
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.

Select and Place:

BACKUPTIME	<item 1>
SOURCEFOLDER	<item 2>
DESTINATION	<item 3>

Correct Answer:

BACKUPTIME	BACKUPTIME
SOURCEFOLDER	DESTINATION
DESTINATION	SOURCEFOLDER

Section: (none)
Explanation

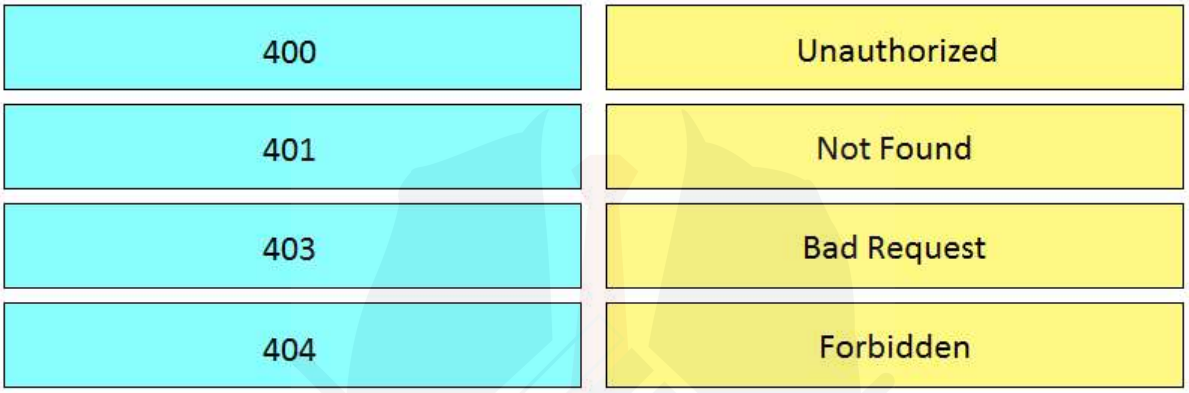
Explanation/Reference:

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

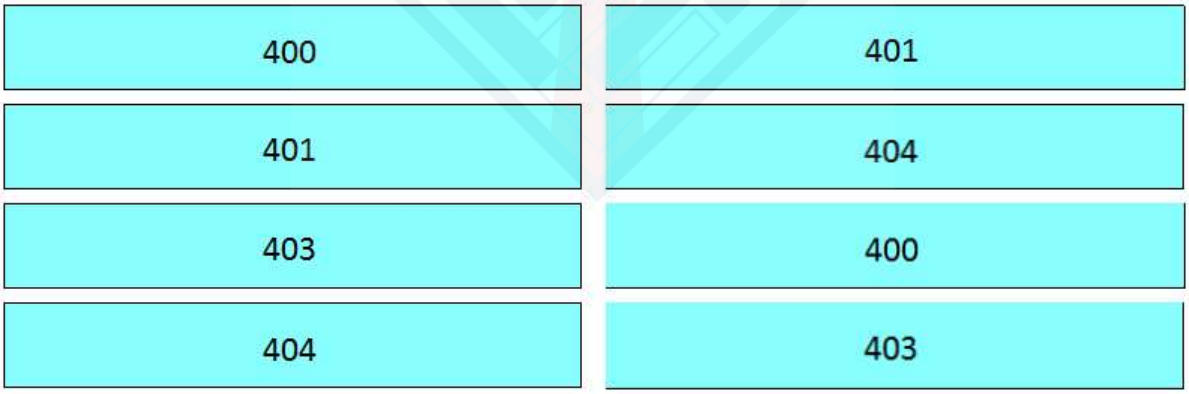
QUESTION 43
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

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

QUESTION 44
Which Cisco DevNet resource allows access to products in a development lab to explore, learn, and build applications that use Cisco APIs?

A. DevNet Code Exchange
B. DevNet Sandbox
C. DevNet Communities
D. DevNet Automation Exchange

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://developer.cisco.com/site/sandbox/

QUESTION 45
Which way should be used to safely store 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. plain text in the code as a constant
D. encrypted in the code in a function

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
Refer to the exhibit.

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

  tasks:
    - ios_l2_interface:
        name: GigabitEthernet0/1
        state: unconfigured

    - ios_l2_interface:
        name: GigabitEthernet0/1
        mode: trunk
        native_vlan: 1
        trunk_allowed_vlans: 6-8
        state: present

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

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

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

Which two statements describe the configuration of the switch after the Ansible script is run? (Choose two.)

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

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
Which principle is a value from the manifesto for Agile software development?

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

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 48
Which statement about authenticating a RESTCONF API session with a router that runs Cisco IOS XE Software is true?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
What are two advantages of the Model-View-Controller software design pattern? (Choose two.)

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

E. reduces need for error handling

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
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 HTTP Basic Authentication.
B. It returns DNAC user and password.
C. It reads a token from a local JSON file and posts the token to the DNAC URL.
D. It returns an authorization token.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://community.cisco.com/t5/cisco-digital-network/how-can-i-make-this-script-to-run/td-p/3882782

QUESTION 51
What are two roles of an artifact repository in a CI/CD pipeline? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
Which detail is included in a routing table?

A. broadcast address
B. TCP or UDP port number
C. IP protocol
D. destination next hop or outgoing interface

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 53
DRAG DROP

Refer to the exhibit.



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

Select and Place:

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

Correct Answer:

Response Headers	Request Headers
HTTP Request	Request Payload
HTTP Response	HTTP Request
Request Payload	HTTP Response
Request Headers	Response Headers
Response Payload	Response Payload

Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
FILL BLANK

Fill in the blanks to complete the statement.

Cisco DNA Center provides 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.

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:

authentication
parameter
json

QUESTION 55
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
Section: (none)
Explanation

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

QUESTION 56
Before which process is code review performed when version control is used?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
Which two concepts describe test-driven development? (Choose two.)

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

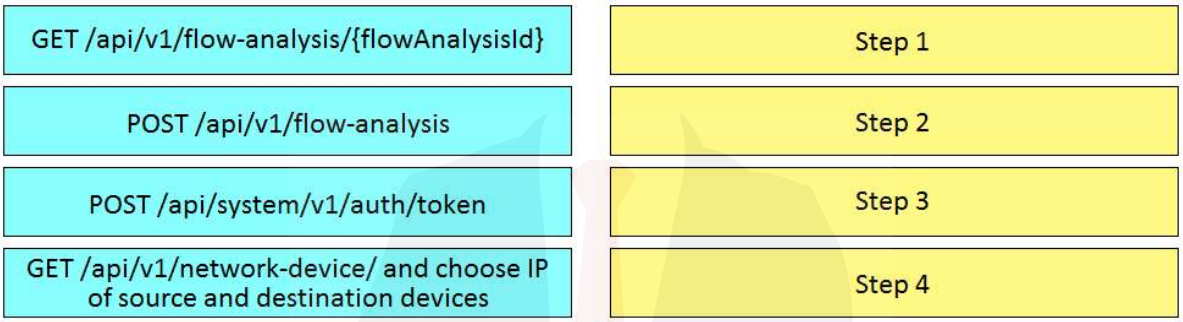
Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

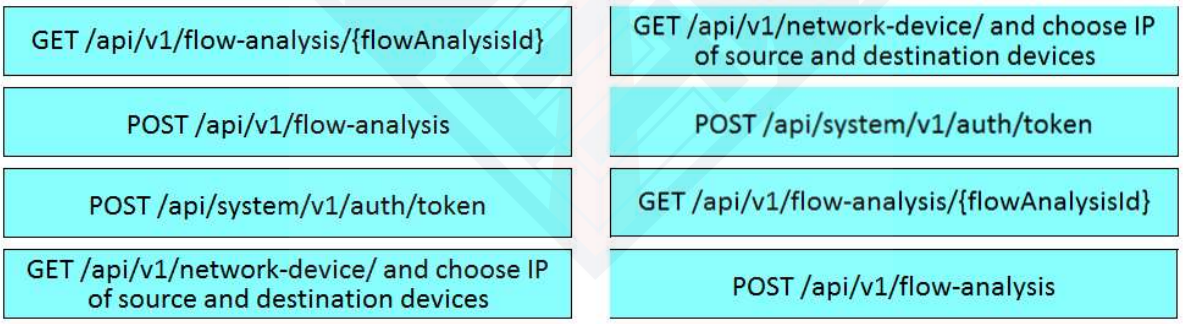
QUESTION 58
DRAG DROP

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.

Select and Place:



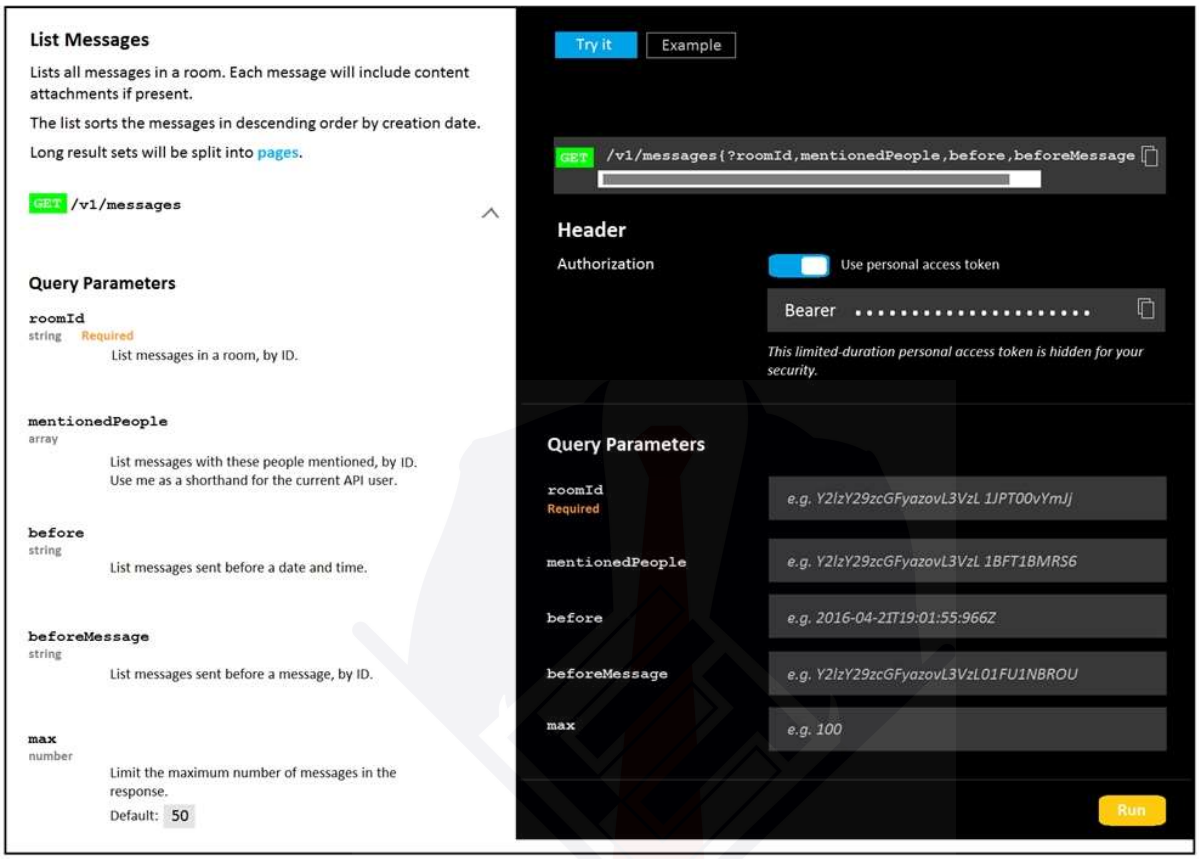
Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 59
Refer to the exhibits.




```
bash-3.2$ curl -H "Content-Type: application/json" -H "Authorization:
Fj2zzykEa091ic9GK2j8LtE1HklH6oRHPQdw1pAT60I7NDThhNwZl2B5pqMg14kK_b9ei59ISAClY7-
NarA-2n9H-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 authorization header is missing or incomplete.
B. The request body is missing or incomplete.
C. The API token specified is expired.
D. The user is not allowed to post messages from their account.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
An application calls a REST API and expects a result set of more than 550 records, but each time the call is made, only 25 are returned. Which feature limits the amount of data that is returned by the API?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 61
What is the Git command to delete a local branch named “experiment” without a warning?

A. **git branch –rm experiment**
B. **git branch –n experiment**
C. **git branch –f experiment**
D. **git branch –D experiment**

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 62
Which two descriptions can be given to an application that is interacting with a webhook? (Choose two.)

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

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
What is an advantage of using network programmability?

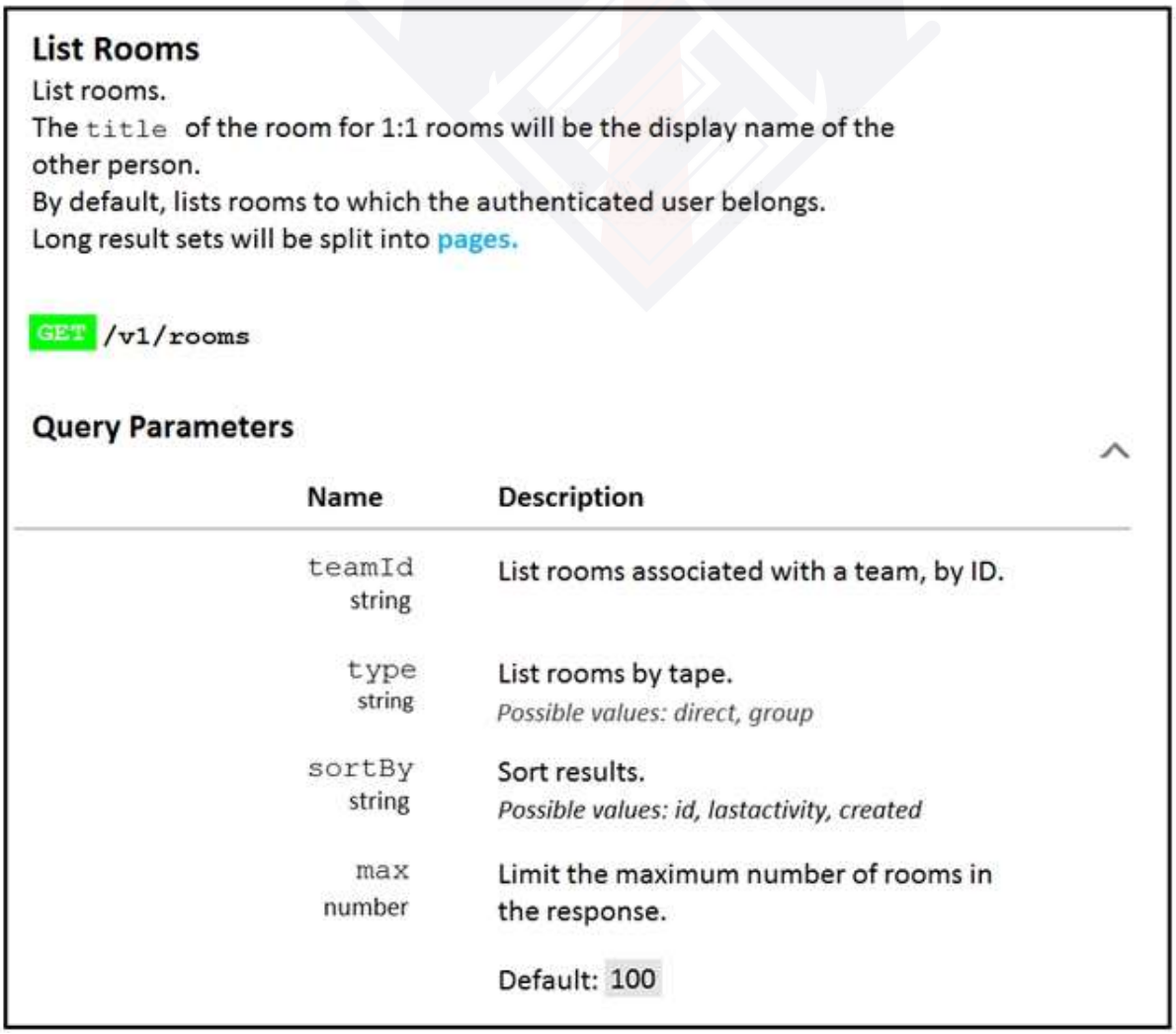
A. Manual configuration is faster.
B. No cloud abstraction occurs.
C. It removes CLI access for devices.
D. It provides for more scalable and replicable network provisioning.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 64
FILL BLANK

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 tape. *Possible values: direct, group*
`sortBy` string	Sort results. *Possible values: id, lastactivity, created*
`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 messages were posted to those rooms.

HTTP GET /v1/rooms _____

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:
GET/v1/rooms{?teamId,type,sortBy,max}

Reference: https://developer.webex.com/docs/api/v1/rooms/list-rooms

QUESTION 65
In Python, which expression checks whether the script returns a success status code when the Requests library is used?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://realpython.com/python-requests/

QUESTION 66
What is an example of a network interface hardware address?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 67
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. For all directories in the current folder, the script goes into the directory and makes a new directory.
B. 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.
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. The script goes into the directory called "$ndir" and makes a new directory called "$ndir".

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68
Which two items are Cisco DevNet resources? (Choose two.)

A. TAC Support
B. Software Research
C. API Documentation
D. Bitbucket
E. Sandbox

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:
Reference: https://developer.cisco.com/

QUESTION 69
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
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70
Which type of HTTP method is used by the Meraki and Webex Teams APIs to send webhook notifications?

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

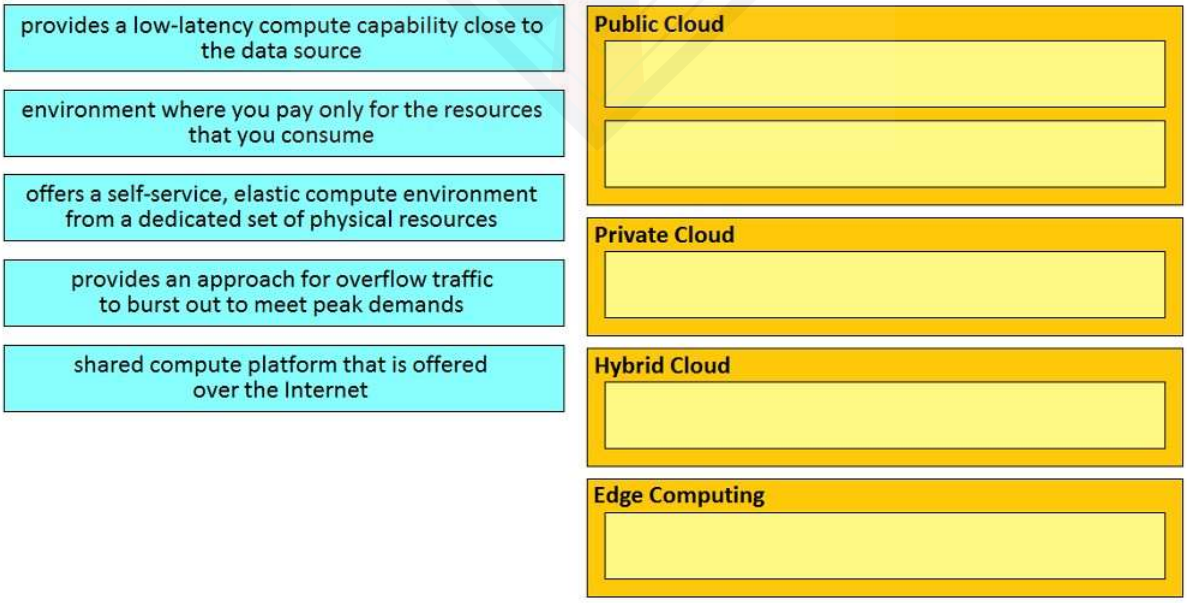
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://meraki.cisco.com/blog/tag/alerts/

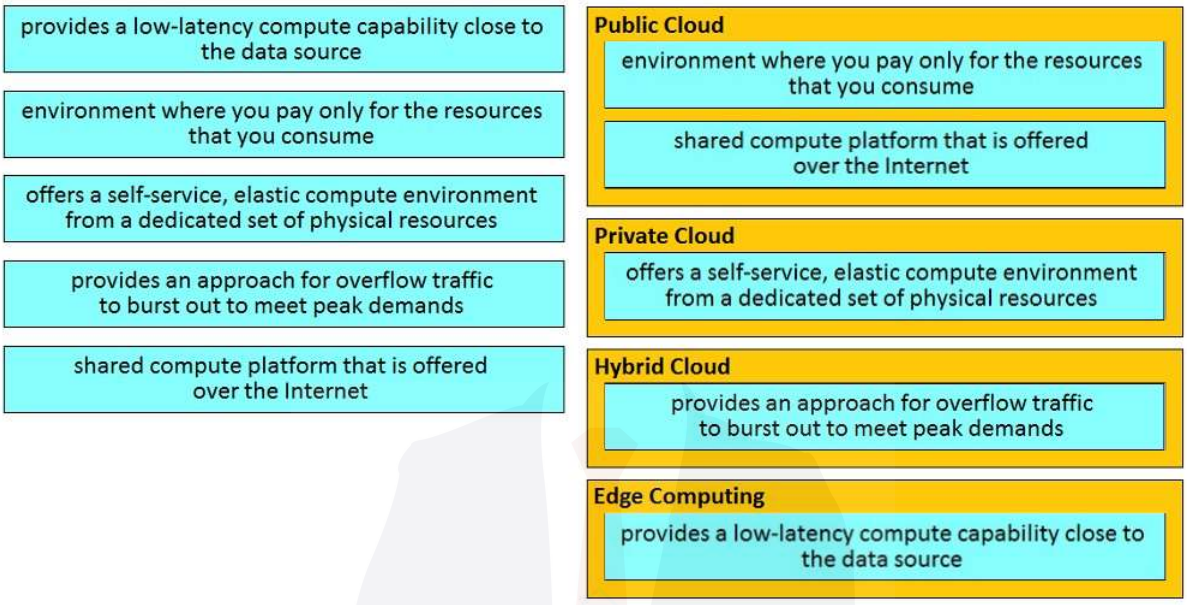
QUESTION 71
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 72
A developer is writing an application that uses a REST API and the application requires a valid response from the API. Which element of the response is used in the conditional check?

A. body
B. headers
C. link
D. URL
E. status code

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
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. load balancer
B. laptop on which the script is running
C. switch
D. router

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 74
Which task is performed because the test-driven development approach is being used?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.guru99.com/test-driven-development.html

QUESTION 75
Which two statements describe the traits of an asynchronous API call? (Choose two.)

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

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Reference: https://medium.com/codebuddies/getting-to-know-asynchronous-javascript-callbacks-promises-and-async-await-17e0673281ee

QUESTION 76
When using the Bash shell, how is the output of the devnet command saved to a file named “output.txt”?

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

Correct Answer: A
Section: (none)
Explanation

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

QUESTION 77
Which two encoding formats do YANG interfaces support? (Choose two.)

A. XML

B. JSON
C. XHTML
D. BER
E. plain text

Correct Answer: AB
Section: (none)
Explanation

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

QUESTION 78
Which action resolves a 401 error in response to an HTTP GET that is issued to retrieve a configuration statement using RESTCONF on a CSR 1000V?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 79
Refer to the exhibit.

class ucsmsdk.ucshandle.**UcsHandle**(*ip, username, password, port=None, secure=None, proxy=None*)

Bases: **ucsmsdk.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?

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

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

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

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2016/pdf/LTRINI%202020-LG.pdf

QUESTION 80
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 log bundles are produced. However, when the script is run during business hours, people report poor voice quality of phone calls. What explains this behavior?

A. 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.
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 running in the Voice VLAN and causes delays and jitter in the subnet.
D. Generating the logs causes the CPU on the network controller to spike, which causes delays in forwarding the voice IP packets.

Correct Answer: B
Section: (none)

Explanation

Explanation/Reference:

QUESTION 81
Which mechanism is used to consume a RESTful API design when large amounts of data are returned?

A. data sets
B. scrolling
C. pagination
D. blobs

Correct Answer: C
Section: (none)
Explanation

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

QUESTION 82
DRAG DROP

Refer to the exhibits.

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).

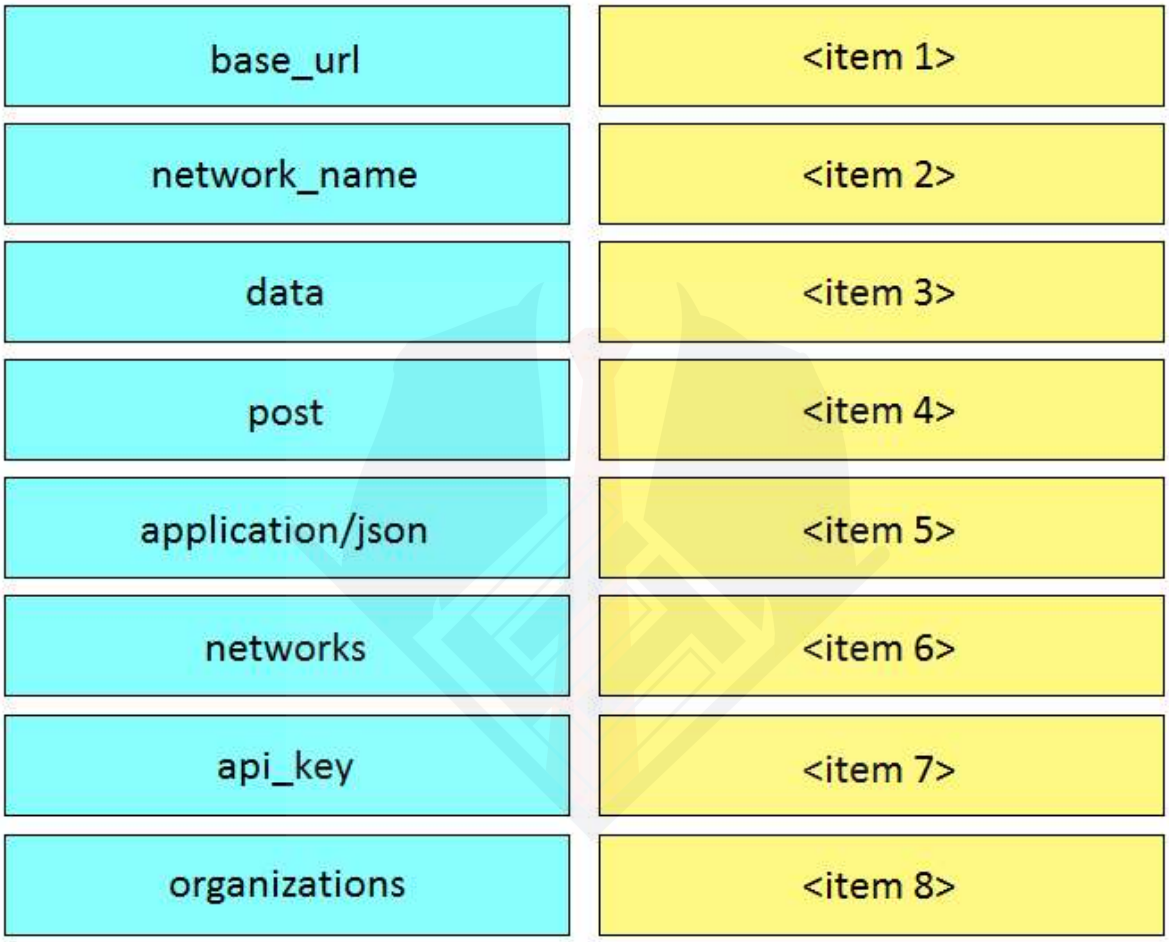
disableRemoteStatusPage
Disables access to the device status page (http://[device's LAN IP]). Optional. Can only be set if disableMyMerakiCom is set to false.

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

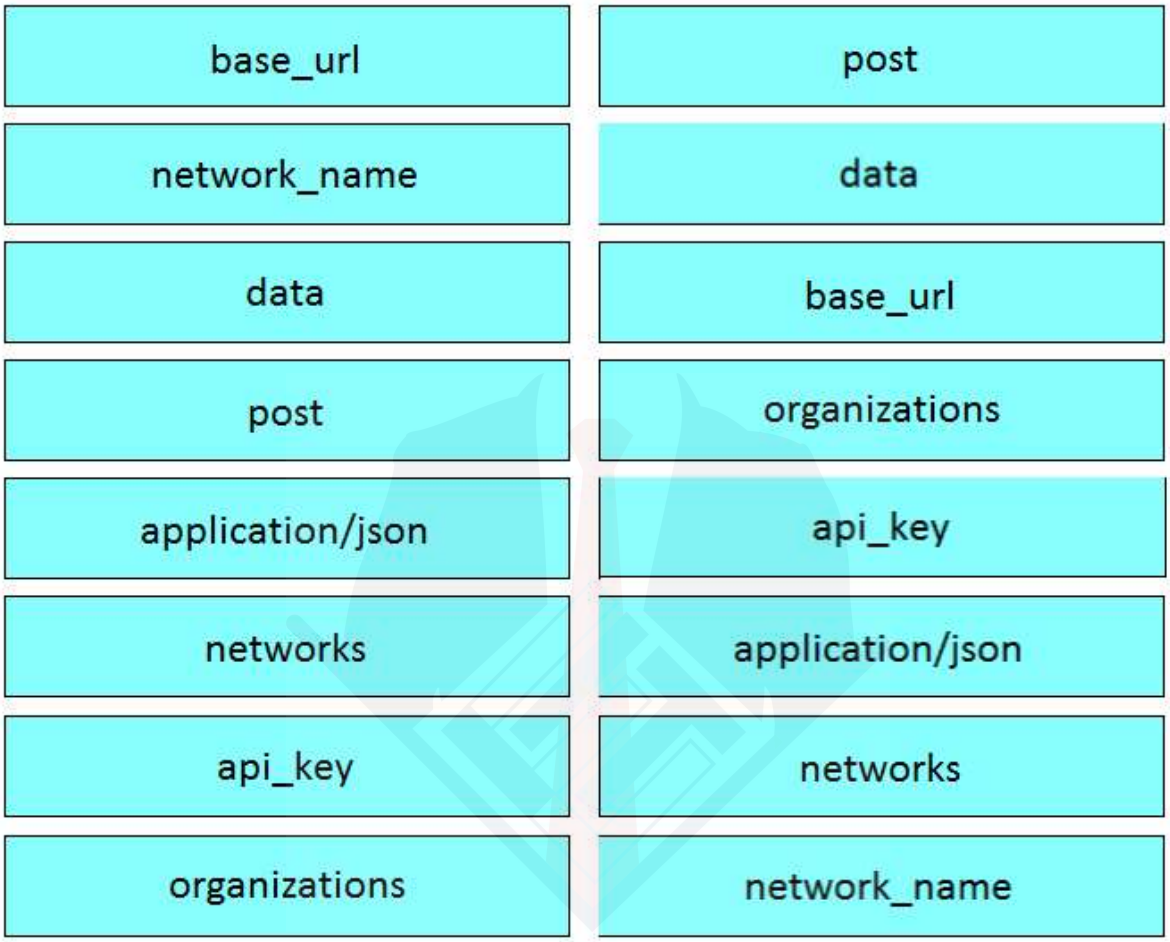
Drag and drop the code from the left onto the item numbers on the right to complete the Meraki Python script

shown in the exhibit.

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
Which type of threat occurs when an attacker can send hostile data to an interpreter within an application?

A. sensitive data exposure
B. broken authentication
C. cross-site scripting
D. injection

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 84
Refer to the exhibit.

```
---
- hosts: {{ router }}
  gather_facts: true
  connection: local

  tasks:
    - ios_command
      commands:
       - show run
      provider: "{{ router_credentials }}"
    register: config

    - copy:
      content: "{{ config.stdout[0] }}"
      dest: "etc/ansible/configs/command_{{ router_hostname }}.txt
...
```

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 85
Refer to the exhibit.



What caused the error in this API request?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 86
Refer to the exhibits.

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. Delimeter 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(clid('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 clid() API can be used when working with JSON and XML. What are two effects of running the script? (Choose two.)

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

Correct Answer: AD

Section: (none)
Explanation

Explanation/Reference:
Reference:
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/Python_API.html

QUESTION 87
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.assertFalse(my_func())
```

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

D.
```
def test_func(self):
    self.assertRaises(my_func())
```

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://github.com/django/django/blob/master/tests/auth_tests/test_mixins.py

QUESTION 88
Which two use cases are supported by Meraki APIs? (Choose two.)

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

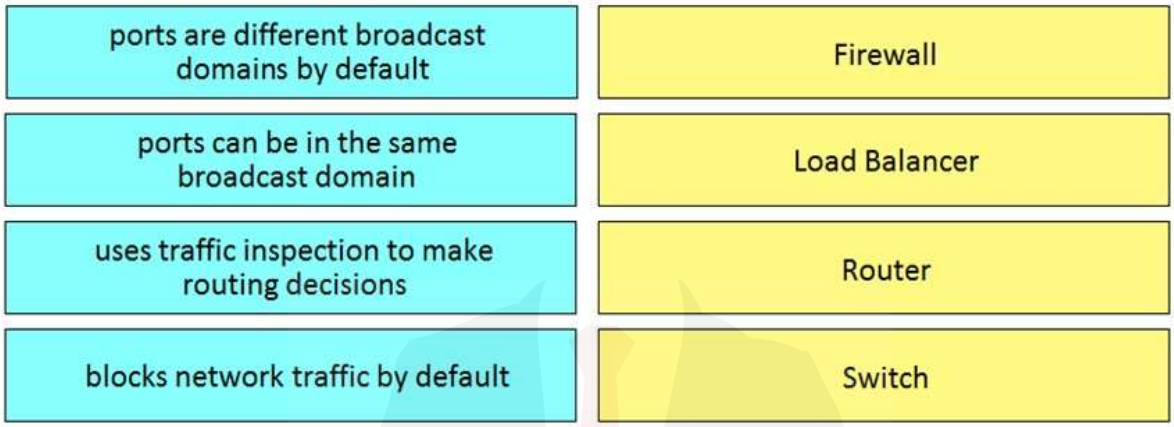
Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

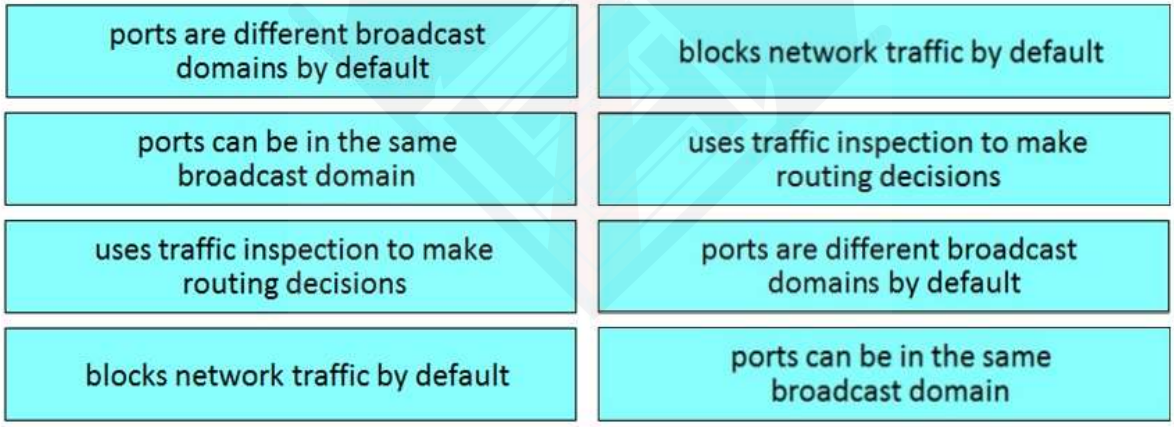
QUESTION 89
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

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

QUESTION 90
Which API is used to obtain data about voicemail ports?

A. Webex Teams
B. Cisco Unified Communications Manager
C. Finesse Gadgets
D. Webex Devices

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
On which network plane is routing protocol traffic handled?

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

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 92
What should a CI/CD pipeline aim to achieve?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93
What are two characteristics of Bare Metal environments that are related to application deployment? (Choose two.)

A. specifically designed for container-based workloads
B. suitable for legacy applications that do not support virtualization
C. provides workloads with access to hardware features
D. not compatible with other cloud services such as PaaS or SaaS offerings
E. provides the hypervisor to host virtual servers

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94
What is the outcome of executing this command?

git clone ssh:/john@example.com/path/to/my-project.git

A. creates a local copy of a repository called “my-project”
B. initiates a new Git repository called “my-project”
C. creates a copy of a branch called “my-project”

D. creates a new branch called “my-project”

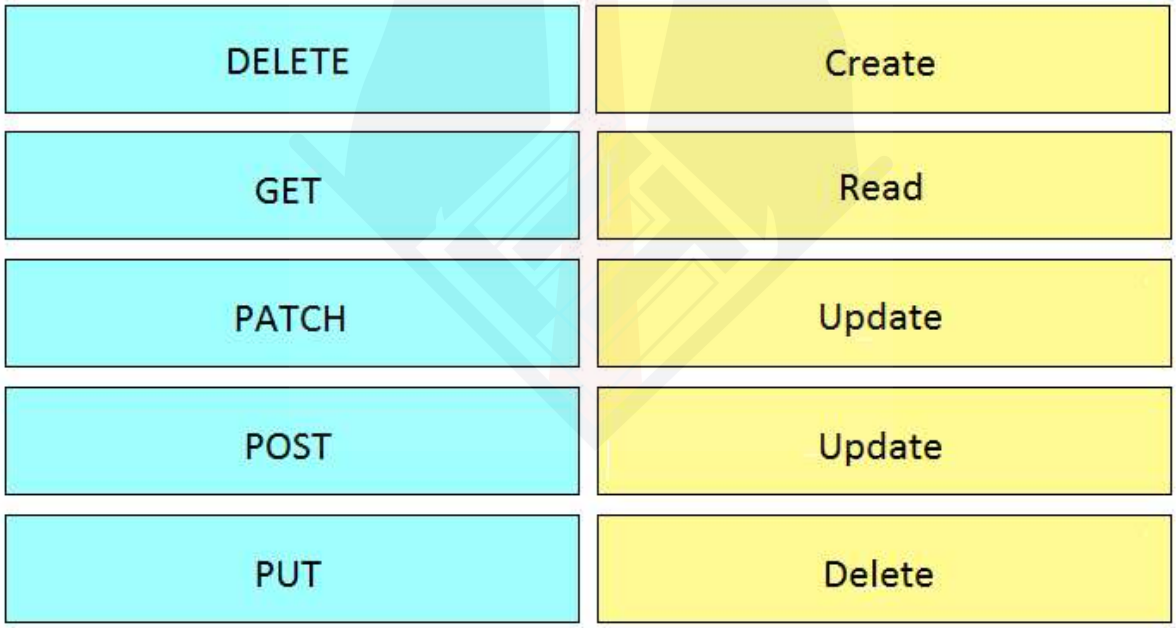
Correct Answer: A
Section: (none)
Explanation

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

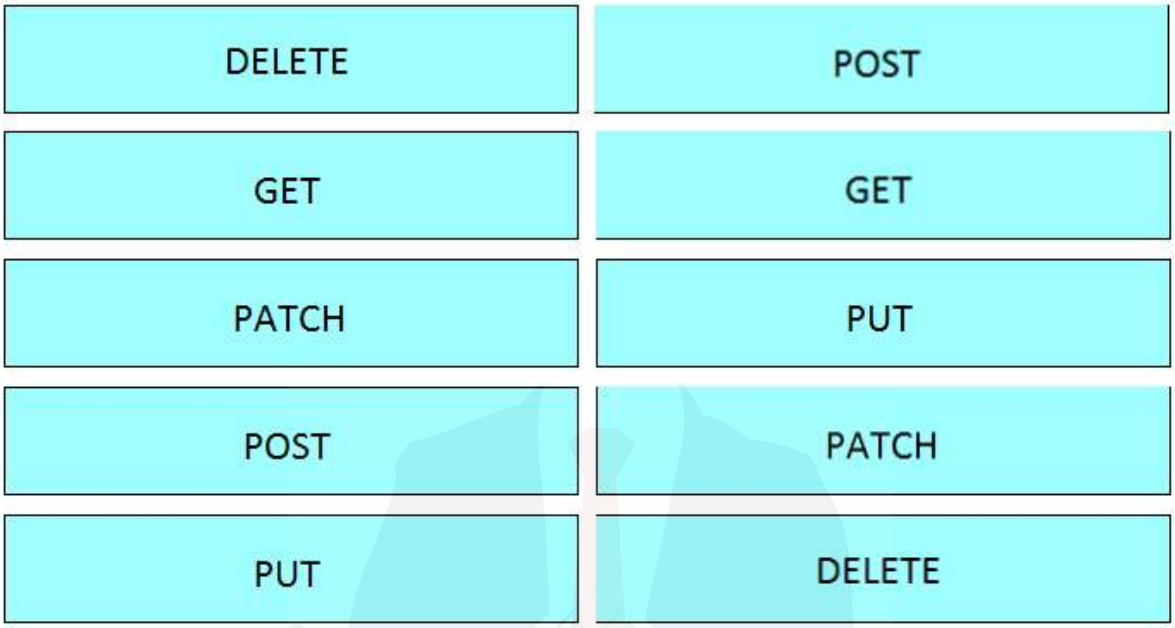
QUESTION 95
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:
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

QUESTION 96
What are two security benefits of a Docker-based application? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97
Which action does the Git command **git merge** allow the developer to perform?

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

Correct Answer: A
Section: (none)

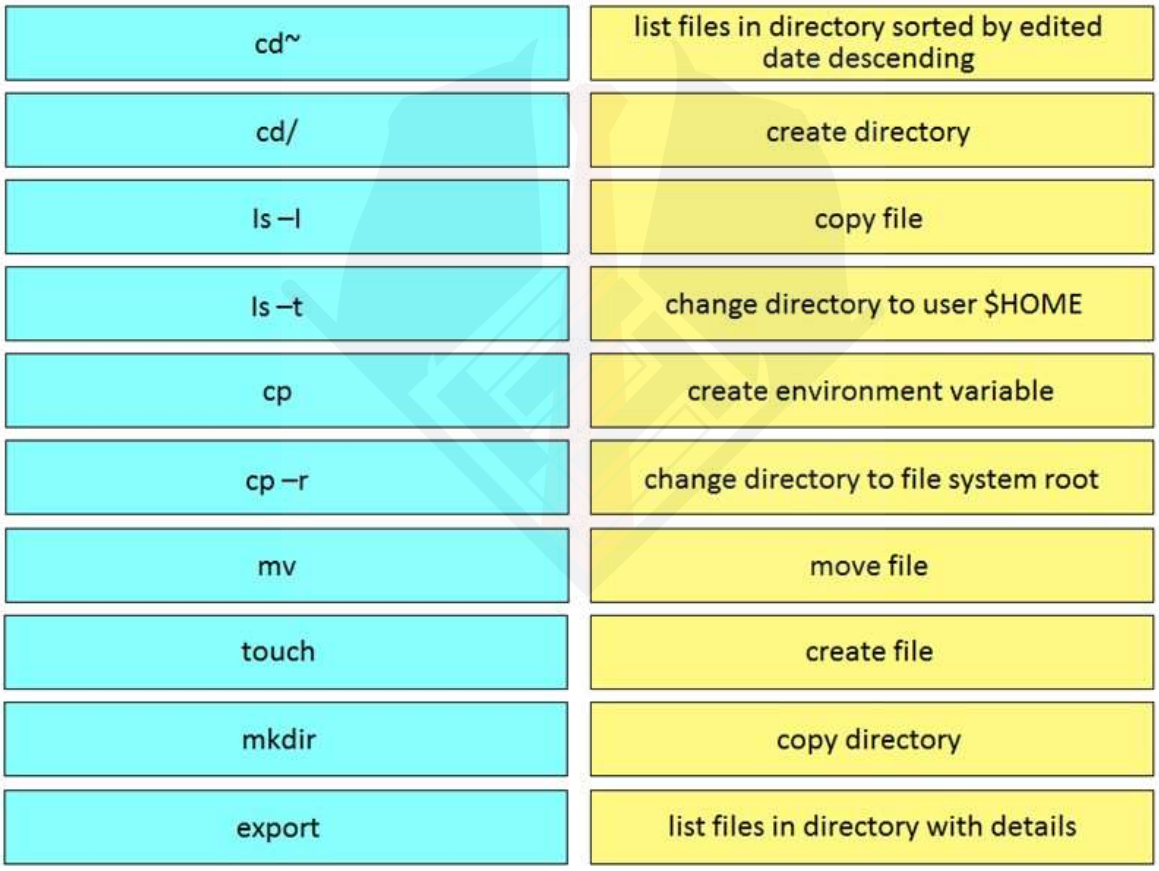
Explanation

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

QUESTION 98
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 99
DRAG DROP

Refer to the exhibits.

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.

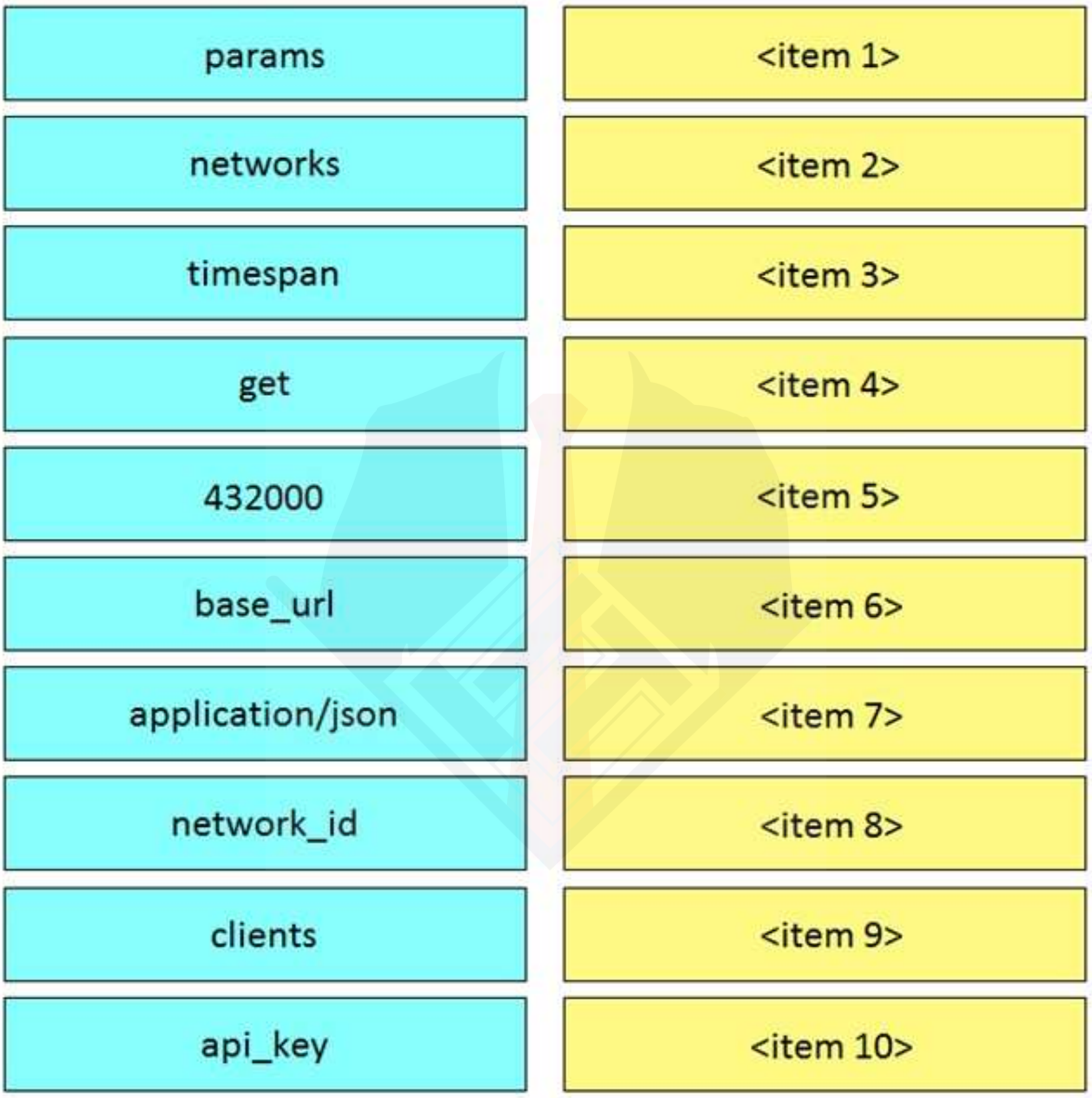
endingBefore

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.

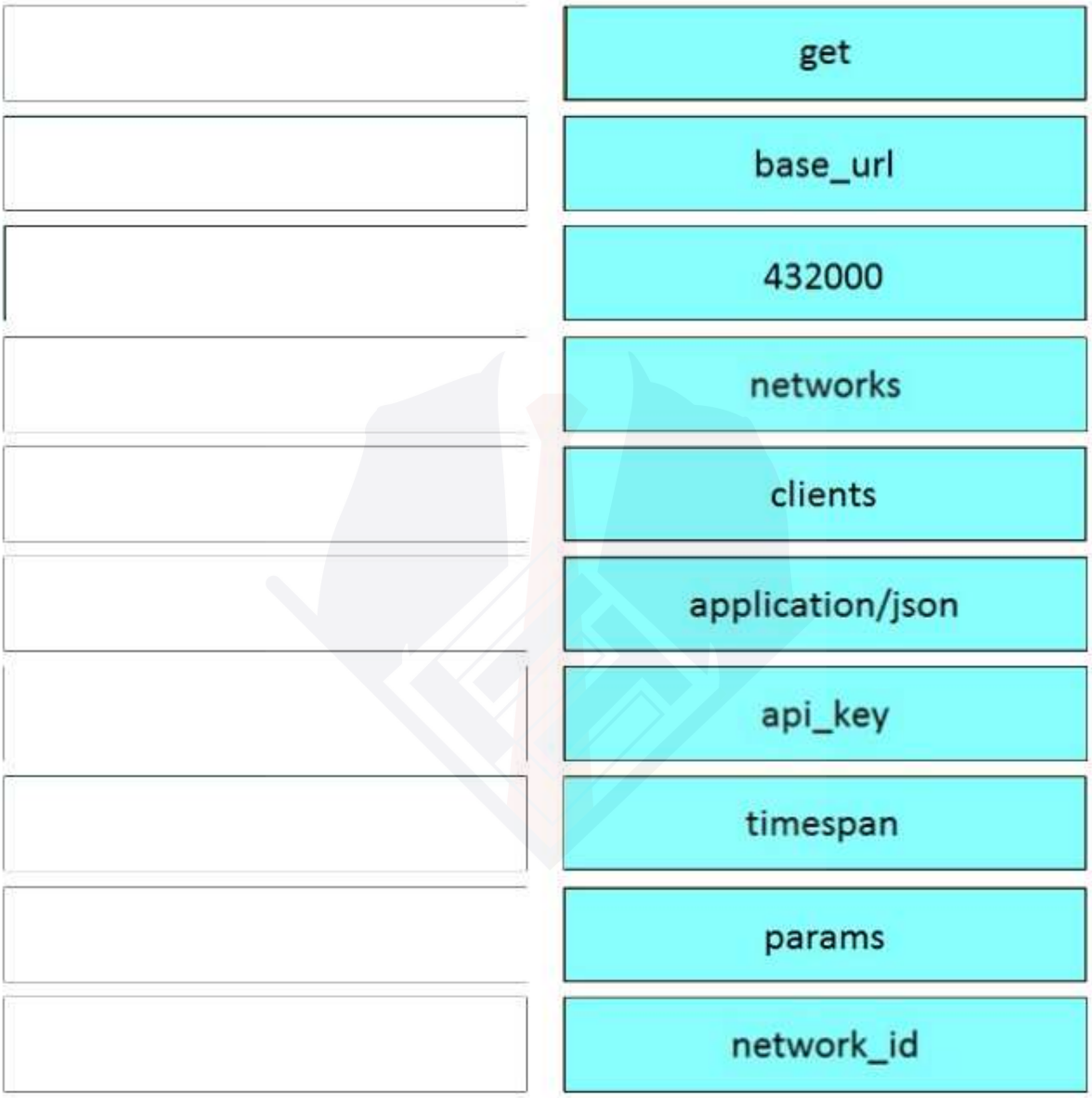
```
base_url = "https://api.meraki.com/api/v0"
network_id = "L_12345678910"
api_key = "1098hadpfsiapsf8ahf8ohp"
requests.<item 1> (
    <item 2> + "/<item 3>/" + <item 4>, "/<item 5>",
    headers = {
        "X-Cisco-Meraki-API-Key": <item 6> ,
        "Content-Type": "<item 7>"
    },
    <item 8>={"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

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 100
Which REST architectural constraint indicates that no client context should be stored on the server between requests?

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

Correct Answer: B
Section: (none)

Explanation

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

QUESTION 101
FILL BLANK

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

my_token=
'eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.ey.JzdWIiOiI1ZDE0OWZkMjhlZTY2
MmQ3NGM5YzE5ZTliLmYzMClslmV4cCI6MTU3MjM3ODE5MCwidXNlcm5hbWUiOiJraX
N370940885.zhK5LPQd501ZUpZI0IH_qrgOXttlNbxSFFF7JOEtRls'

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

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:
response = requests.request(method , url,
headers = headers, data = request.get_data)
print(response.text.encode('utf8'))

Reference: https://www.programcreek.com/python/example/64946/flask.request.get_data

QUESTION 102
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": [
            "pepper"
          ]
       }
    ]
  }
]
```

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

```
print(filter(lambda 1: 1['type'] == 'fruit', vegetables) [0]['items'][0]['items']
[0])
```

A. {‘color’: ‘green’, ‘items’: [‘kiwi’, ‘grape’]}
B. [‘kiwi’, ‘grape’]
C. lettuce
D. kiwi

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 103
FILL BLANK

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
url = “https://api.ciscospark.com/v1/memberships/
Y2lzY29zcGFyazov379971079INISVAvOTJiM2RkOWEtNjc1ZC00YTQxLThjNDEtMmFiZGY4OWY0NGY0OjExNzJkNmYwLTJlYzMtMTFlOS1iOWI3LWNmMjg3MTJhYTkzNw”
my_token = “AbCdEf123456”

payload = “{\n \”isModerator\”: true\n}”
headers = {
‘Authorization’: ‘Bearer’ + my_token,
‘Content-Type’: ‘application/json’
}
response = requests. _____ (“PATCH”, url, headers= _____, data = _____)
print(response.text.encode(‘utf8’))

Correct Answer: See explanation below.
Section: (none)
Explanation

Explanation/Reference:
Explanation:
response = requests.request(“PATCH”, url, headers= headers, data = payload)
print(response.text.encode(‘utf8’))

QUESTION 104
DRAG DROP

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

Select and Place:

Multi-Cloud automation and orchestration platform for Cisco and third-party servers, networks, storage, and converged infrastructure.	UCS Manager
Software as a Service Platform that enables Cisco infrastructure management, automation and orchestration from anywhere.	UCS Director
Embedded software that enables Cisco server, fabric, and storage provisioning.	Intersight

Correct Answer:

Multi-Cloud automation and orchestration platform for Cisco and third-party servers, networks, storage, and converged infrastructure.	Embedded software that enables Cisco server, fabric, and storage provisioning.
Software as a Service Platform that enables Cisco infrastructure management, automation and orchestration from anywhere.	Multi-Cloud automation and orchestration platform for Cisco and third-party servers, networks, storage, and converged infrastructure.
Embedded software that enables Cisco server, fabric, and storage provisioning.	Software as a Service Platform that enables Cisco infrastructure management, automation and orchestration from anywhere.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
How does requesting a synchronous API operation differ from requesting an asynchronous API operation?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 106
What are two advantages of YANG-based approaches for infrastructure automation? (Choose two.)

A. multi-platform vendor abstraction
B. compiles to executables that run on network devices
C. designed to reflect networking concepts
D. directly maps to JavaScript

E. command line driven interface

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 107
Which device is used to transport traffic from one broadcast domain to another broadcast domain?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 108
Which service provides a directory lookup for IP addresses and host names?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 109
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 has the wrong time.
B. A router along the path is misrouting the packets in a wrong direction.
C. The server is too loaded and the connection could not be handled in time.
D. The server is too far away and the packets require too much time to reach it.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 110

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?

A.
```
{
 "IPPeer": [
   "10.1.1.1"
 ]
}
```

B.
```
{
 "IPPeer": "10.1.1.1 2001:db::1"
}
```

C.
```
{
 "IPPeer": "10.1.1.1"
}
```

D.
```
{
 "IPPeer": [
   "10.1.1.1"
   "2001:db::1"
 ]
}
```

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 111
What is used in Layer 2 switches to direct packet transmission to the intended recipient?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 112
FILL BLANK

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 '_____ _____'; do
_____ $f' openssl sha -sha256 -r < $f | cut -f1 -cl' "

Correct Answer: See explanation below.
Section: (none)
Explanation

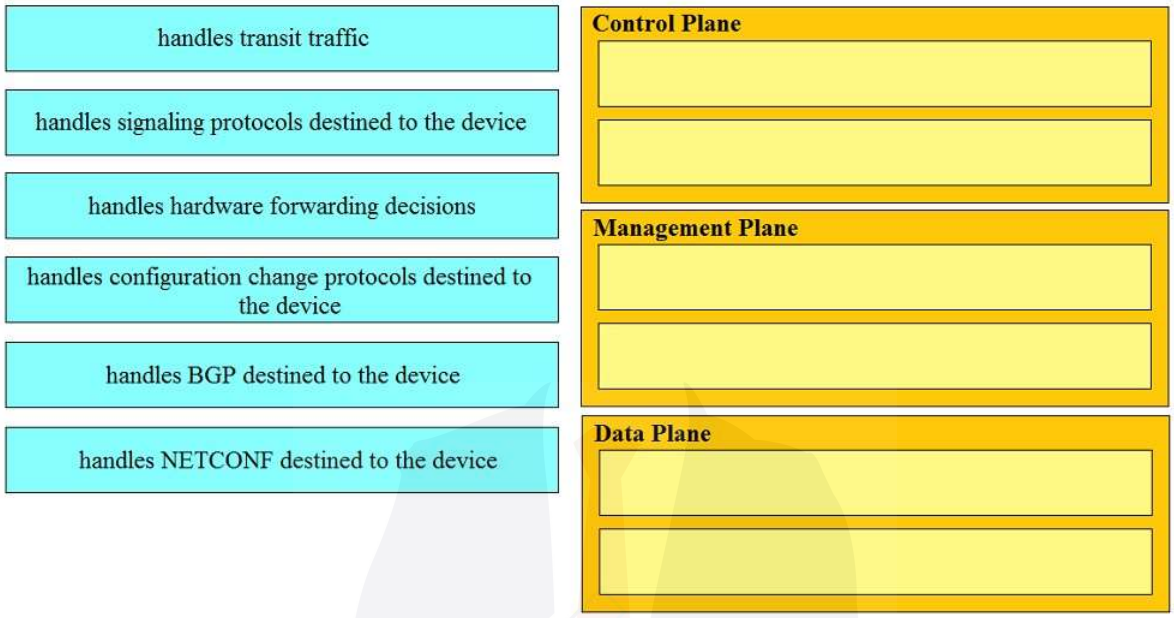
Explanation/Reference:
Explanation:

TARGET_DIR=/usr/local/certs
for f in '/usr/local/certs'; do
echo $f' openssl sha -sha256 -r < $f | cut -f1 -cl' "

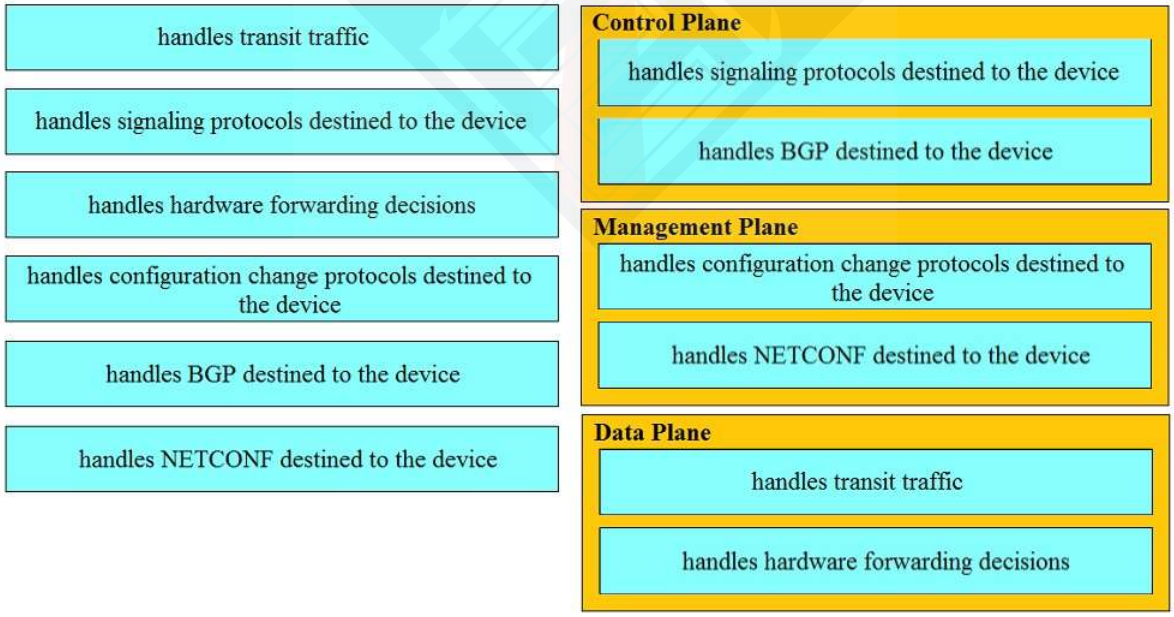
QUESTION 113
DRAG DROP

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

Select and Place:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 114
DRAG DROP

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

Select and Place:

response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)	Step 1 – Import the correct libraries.
ticket = r_json["Token"] print (ticket)	Step 2 – Declare the necessary variable.
(_json = response.json() print(r_json)	Step 3 – Send the HTTP Request.
import requests import json	Step 4 – Format and display the response in JSON readable format.
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' }	Step 5 – Parse the response to display the Service Ticket.

Correct Answer:

response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)	import requests import json
ticket = r_json["Token"] print (ticket)	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' }
(_json = response.json() print(r_json)	response = requests.post(url, data=json.dumps(payload), \ headers=header, verify=False)
import requests import json	(_json = response.json() print(r_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' }	ticket = r_json["Token"] print (ticket)

Section: (none)
Explanation

Explanation/Reference:

QUESTION 115
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. Users must authenticate on the webserver to access it.
C. A router along the path is overloaded and thus dropping traffic.
D. The traffic is not allowed to be translated with NAT and dropped.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 116
What is an advantage of a version control system?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 117
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 copies a new running configuration to CISCO_ROUTER_01
C. The playbook backs up the running configuration of CISCO_ROUTER_01
D. The playbook backs up the start-up configuration of CISCO_ROUTER_01

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 118
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 request has not been accepted because it requires authentication.
C. The sever accepted the request but the client is not authorized for this content.
D. The server cannot find the requested resource because the path specified is incorrect.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://blog.restcase.com/rest-api-error-codes-101/#:~:text=A%20401%20error%20response%20indicates,credentials%20or%20none%20at%20all.

QUESTION 119
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. Reverse engineer the code for a desired function.
D. Write a passing test case for existing code.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://technologyconversations.com/2013/12/20/test-driven-development-tdd-example-walkthrough/

QUESTION 120
What is the purpose of a firewall in application deployment?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 121
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. Subnets will split domains to limit failures.

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 122
How does a developer create and switch to a new branch called “my-bug-fix” to develop a product fix?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dnnsoftware.com/community-blog/cid/155105

QUESTION 123
What operation is performed with YANG model-driven programmability in NX-OS?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-741518.html