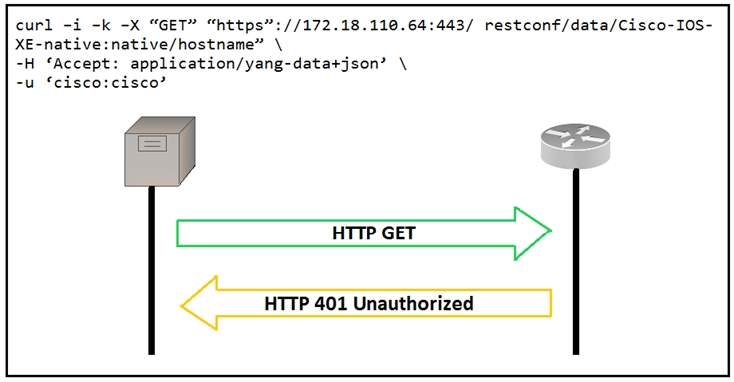
Question #41*Topic 1*

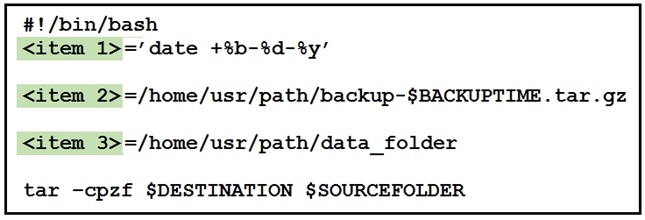
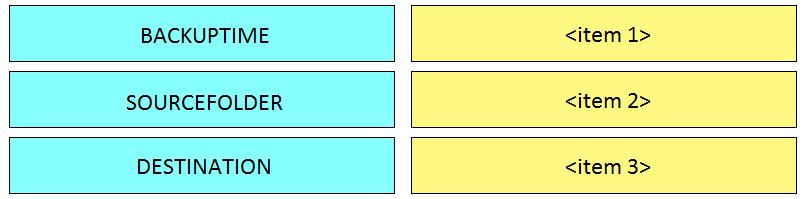
Refer to the exhibit.  
  
An administrator attempts to perform a GET using the Cisco IOS XE RESTCONF API to return the hostname of a device. The sequence diagram illustrates the  
HTTP messages observed. Which change to the API request resolves the issue?

* 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'

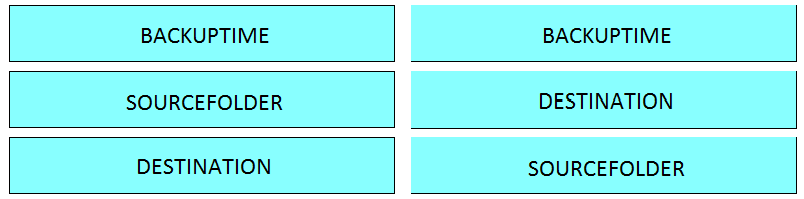
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**Correct Answer:** *D*

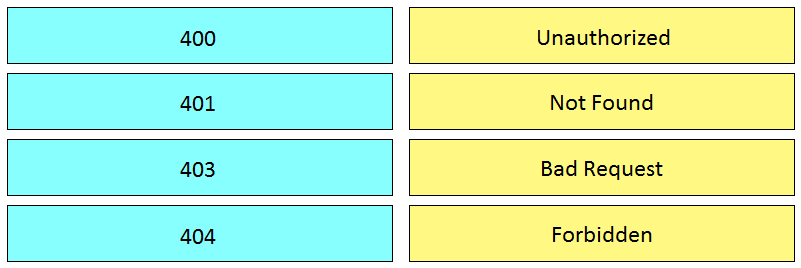
Question #42*Topic 1*

DRAG DROP -  
Refer to the exhibit.  
  
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:  


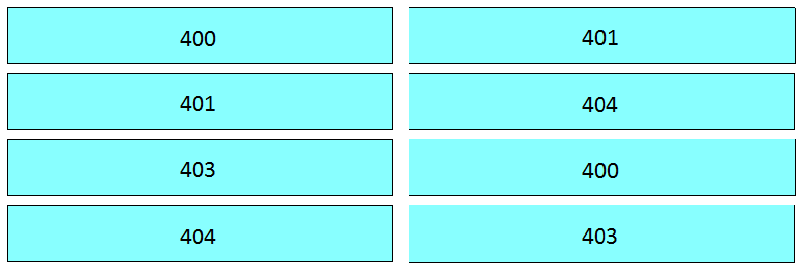
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**Correct Answer:** **  
Reference:  
https://medium.com/@fotios.floros/linux-backup-script-1722cc9c2bf6  
(use tar in order to create your backup file)

Question #43*Topic 1*

DRAG DROP -  
Drag and drop the HTTP status codes from the left onto the correct descriptions on the right.  
Select and Place:  


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

Question #44*Topic 1*

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

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**Correct Answer:** *B*  
Reference:  
https://developer.cisco.com/site/sandbox/

Question #45*Topic 1*

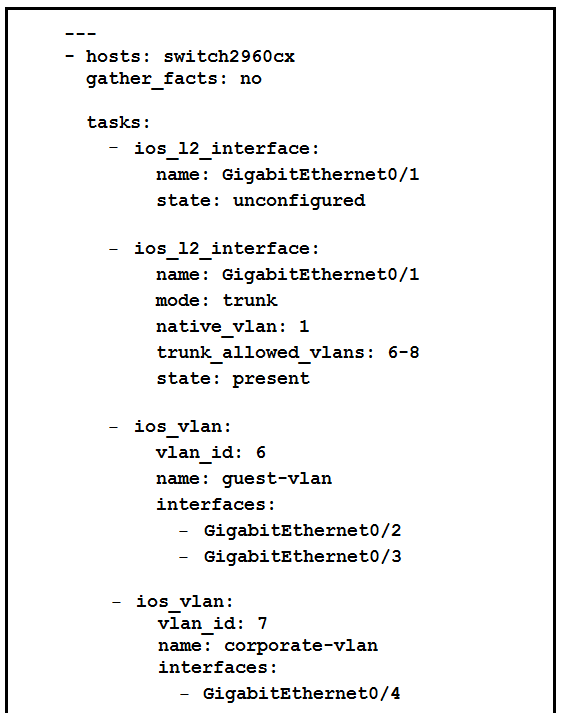
Which way should be used to safely store the API keys?

* 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

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**Correct Answer:** *A*

Question #46*Topic 1*

Refer to the exhibit.  
  
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.

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**Correct Answer:** *AC*

Question #47*Topic 1*

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

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**Correct Answer:** *D*  
Reference:  
https://www.cisco.com/c/dam/global/en\_hk/solutions/collaboration/files/agile\_product\_development.pdf

Question #48*Topic 1*

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.

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**Correct Answer:** *A*  
Reference:  
https://content.cisco.com/chapter.sjs?uri=%2Fsearchable%2Fchapter%2Fcontent%2Fen%2Fus%2Ftd%2Fdocs%2Fios-xml%2Fios%2Fprog%  
2Fconfiguration%2F169%2Fb\_169\_programmability\_cg%2Frestconf\_programmable\_interface.html.xml&platform=Cisco%204000%20Series%20Integrated%  
20Services%20Routers&release=IOS%20XE%20Fuji%2016.9.x

Question #49*Topic 1*

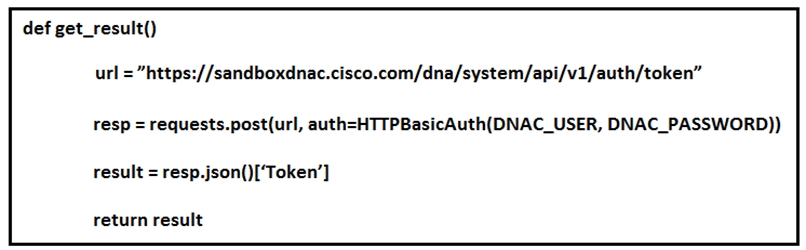
What are two advantages of the Model-View-Controller software design pattern? (Choose two.)

* 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

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**Correct Answer:** *AB*

Question #50*Topic 1*

Refer to the exhibit.  
  
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.

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

Question #51*Topic 1*

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

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

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**Correct Answer:** *AB*

Question #52*Topic 1*

Which detail is included in a routing table?

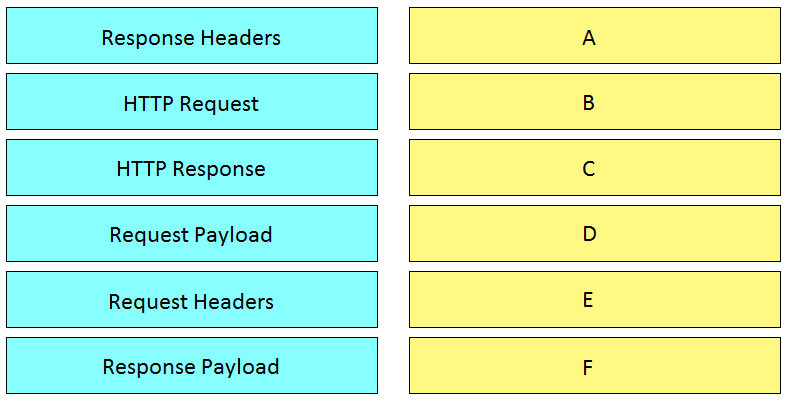
* A. broadcast address
* B. TCP or UDP port number
* C. IP protocol
* D. destination next hop or outgoing interface

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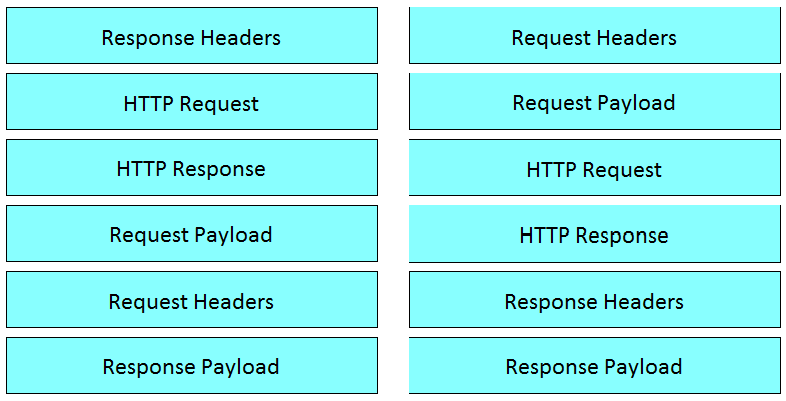
**Correct Answer:** *D*  
Reference:  
https://geek-university.com/ccna/routing-table-explained/

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Question #53*Topic 1*

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:  


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**Correct Answer:** **

Question #54*Topic 1*

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.

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**Correct Answer:** *See explanation below.*  
authentication  
parameter  
json

Question #55*Topic 1*

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

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

Question #56*Topic 1*

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

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

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**Correct Answer:** *D*

Question #57*Topic 1*

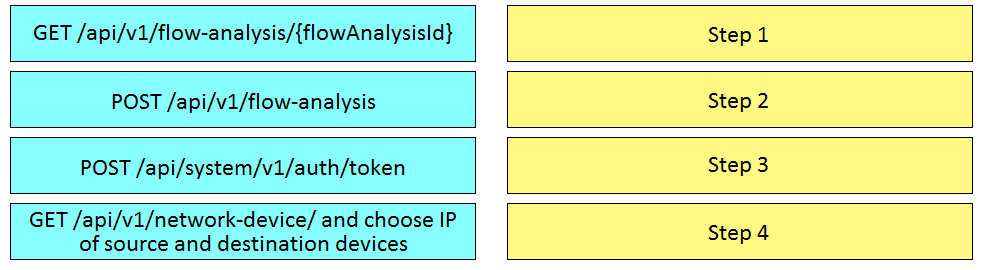
Which two concepts describe test-driven development? (Choose two.)

* 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.

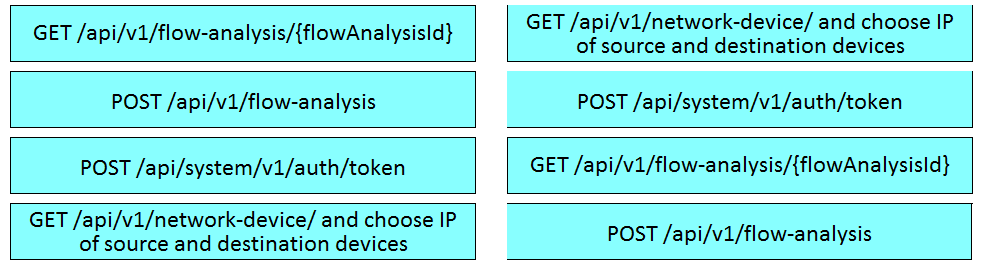
[Hide Solution](https://www.examtopics.com/exams/cisco/200-901/view/15/) [Discussion   **9**](https://www.examtopics.com/exams/cisco/200-901/view/15/)

**Correct Answer:** *CE*  
Reference:  
http://agiledata.org/essays/tdd.html

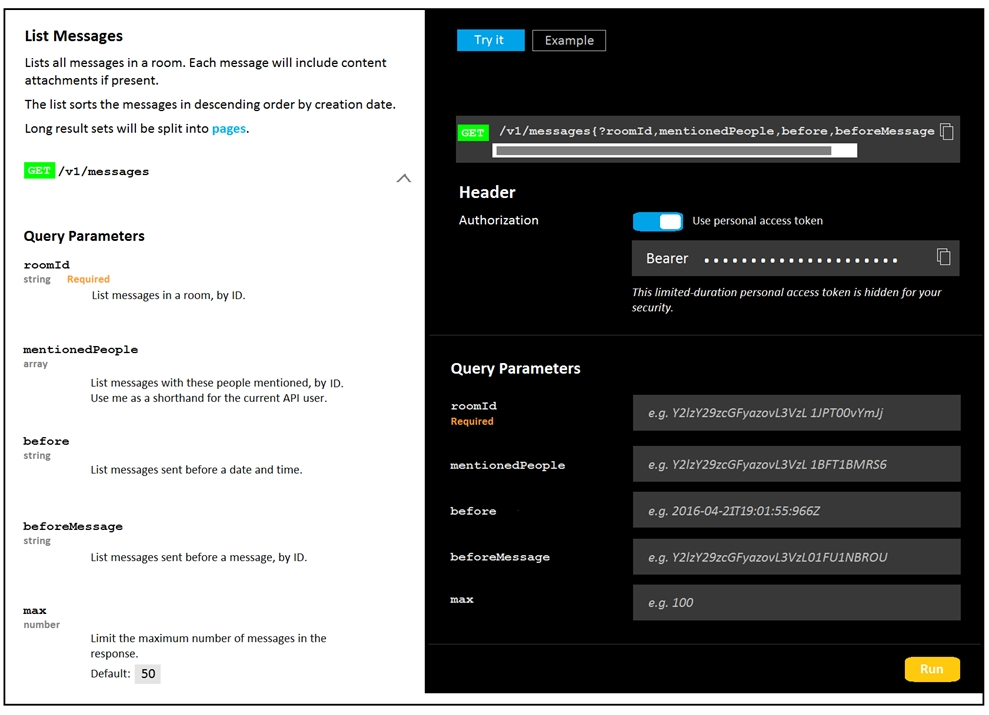
Question #58*Topic 1*

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:  


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**Correct Answer:** **

Question #59*Topic 1*

Refer to the exhibits.  
  
  
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.

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**Correct Answer:** *A*

Question #60*Topic 1*

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

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**Correct Answer:** *B*  
Reference:  
https://stackoverflow.com/questions/1495541/rest-payload-max-size

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Question #61*Topic 1*

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

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**Correct Answer:** *D*  
Reference:  
https://www.atlassian.com/git/tutorials/using-branches

Question #62*Topic 1*

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

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**Correct Answer:** *AB*

Question #63*Topic 1*

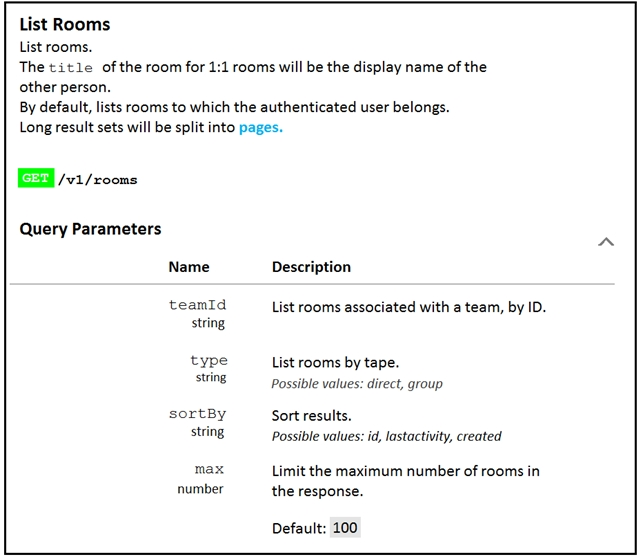
What is an advantage of using network programmability?

* 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.

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**Correct Answer:** *D*

Question #64*Topic 1*

FILL BLANK -  
Refer to the exhibit.  
  
Fill in the blank to complete the query parameter and value so that the result set is returned in reverse chronological order (most recent first) based on when messages were entered.  
HTTP GET /v1/rooms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Correct Answer:** *See explanation below.*  
GET/v1/rooms{?teamId,type,sortBy,max}  
Reference:  
https://developer.webex.com/docs/api/v1/rooms/list-rooms

Question #65*Topic 1*

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

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**Correct Answer:** *A*  
Reference:  
https://realpython.com/python-requests/

Question #66*Topic 1*

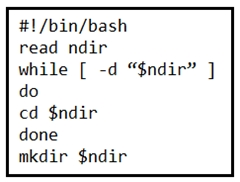
What is an example of a network interface hardware address?

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

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**Correct Answer:** *D*

Question #67*Topic 1*

Refer to the exhibit.  
  
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".

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**Correct Answer:** *A*

Question #68*Topic 1*

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

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

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**Correct Answer:** *CE*  
Reference:  
https://developer.cisco.com/

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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

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**Correct Answer:** *B*  
Reference:  
https://www.cisco.com/c/en/us/td/docs/security/firepower/630/fdm/fptd-fdm-config-guide-630/fptd-fdm-get-started.html

Question #70*Topic 1*

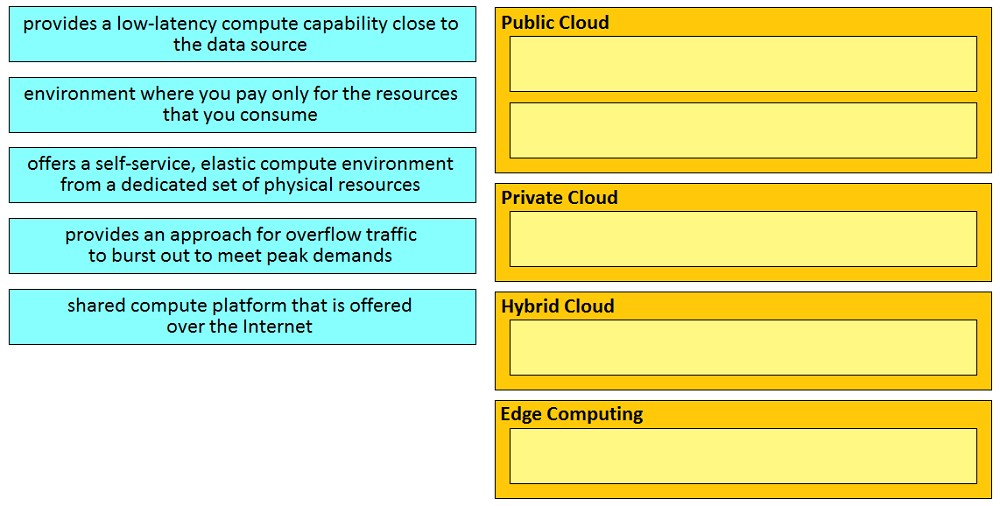
Which type of HTTP method is used by the Meraki and Webex Teams APIs to send webhook notifications?

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

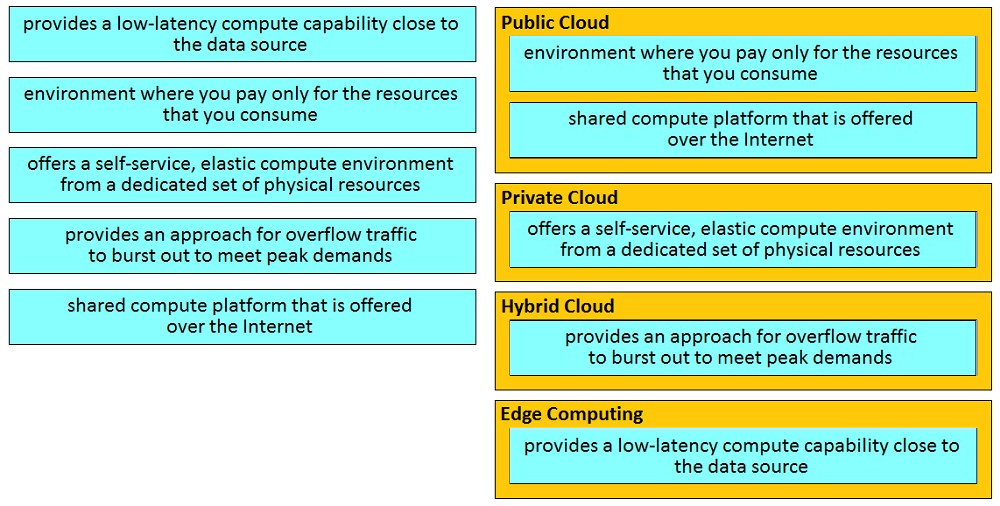
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**Correct Answer:** *A*  
Reference:  
https://meraki.cisco.com/blog/tag/alerts/

Question #71*Topic 1*

DRAG DROP -  
Drag and drop the descriptions from the left onto the correct application deployment models on the right.  
Select and Place:  


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**Correct Answer:** **

Question #72*Topic 1*

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

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**Correct Answer:** *B*  
Reference:  
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest\_cfg/2\_1\_x/b\_Cisco\_APIC\_REST\_API\_Configuration\_Guide/ b\_Cisco\_APIC\_REST\_API\_Configuration\_Guide\_chapter\_01.html

Question #73*Topic 1*

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

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**Correct Answer:** *A*

Question #74*Topic 1*

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

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**Correct Answer:** *D*  
Reference:  
https://www.guru99.com/test-driven-development.html

Question #75*Topic 1*

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.

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

Question #76*Topic 1*

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

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**Correct Answer:** *A*  
Reference:  
https://askubuntu.com/questions/420981/how-do-i-save-terminal-output-to-a-file

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Question #77*Topic 1*

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

* A. XML
* B. JSON
* C. XHTML
* D. BER
* E. plain text

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**Correct Answer:** *AB*  
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*Topic 1*

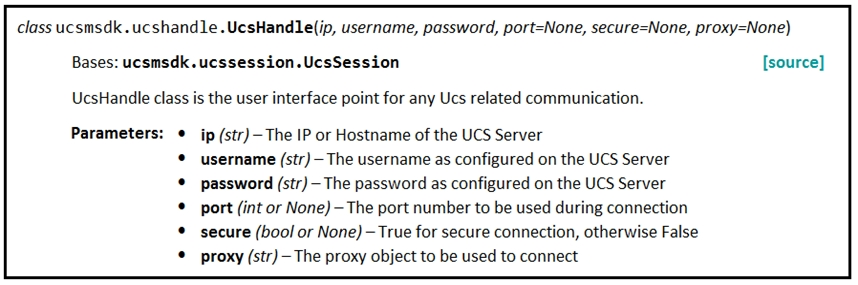
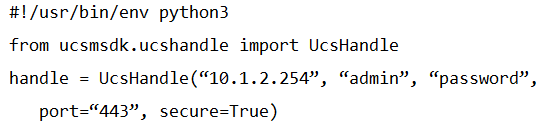
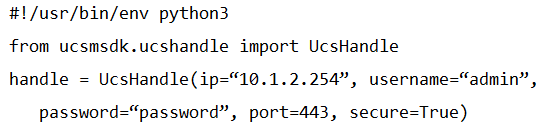
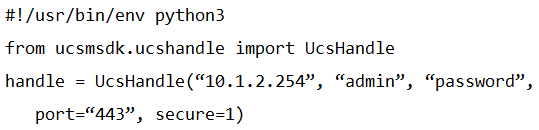
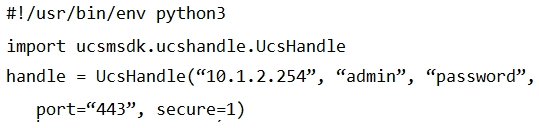
Which action resolves a 401 error in response to an HTTP GET that is issued to retrieve a configuration statement using RESTCONF on a CSR 1000V?

* 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.

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**Correct Answer:** *C*

Question #79*Topic 1*

Refer to the exhibit.  
  
Given the API documentation for the UCS SDK Python class, UcsHandle, which code snippet creates a handle instance?  
A.  
  
B.  
  
C.  
  
D.  


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

Question #80*Topic 1*

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 application 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.

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**Correct Answer:** *B*

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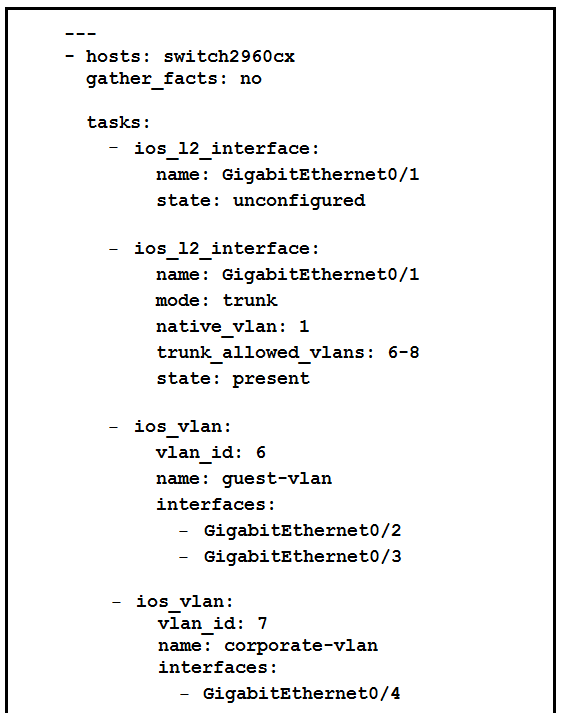
Which way should be used to safely store the API keys?

* 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

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**Correct Answer:** *A*

Question #46*Topic 1*

Refer to the exhibit.  
  
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.

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**Correct Answer:** *AC*

Question #47*Topic 1*

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

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**Correct Answer:** *D*  
Reference:  
https://www.cisco.com/c/dam/global/en\_hk/solutions/collaboration/files/agile\_product\_development.pdf

Question #48*Topic 1*

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

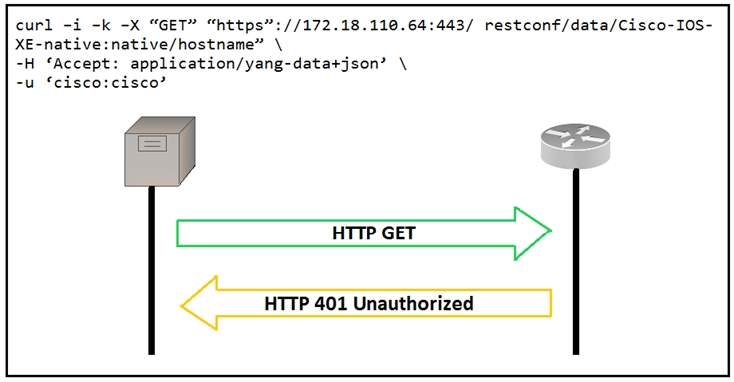
* A. No authentication is required.
* B. OAuth must be used.
* C. A token must be retrieved and the associated string must be embedded in the X-Auth-Token header.
* D. Basic authentication must be used.

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**Correct Answer:** *A*  
Reference:  
https://content.cisco.com/chapter.sjs?uri=%2Fsearchable%2Fchapter%2Fcontent%2Fen%2Fus%2Ftd%2Fdocs%2Fios-xml%2Fios%2Fprog%  
2Fconfiguration%2F169%2Fb\_169\_programmability\_cg%2Frestconf\_programmable\_interface.html.xml&platform=Cisco%204000%20Series%20Integrated%  
20Services%20Routers&release=IOS%20XE%20Fuji%2016.9.x

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Question #41*Topic 1*

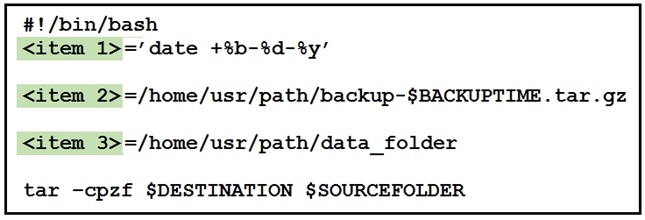
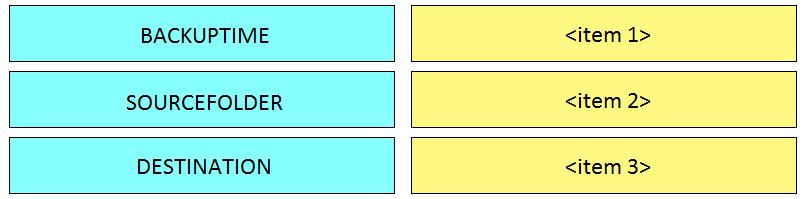
Refer to the exhibit.  
  
An administrator attempts to perform a GET using the Cisco IOS XE RESTCONF API to return the hostname of a device. The sequence diagram illustrates the  
HTTP messages observed. Which change to the API request resolves the issue?

* 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'

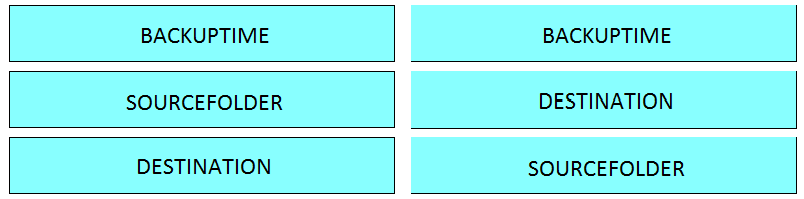
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**Correct Answer:** *D*

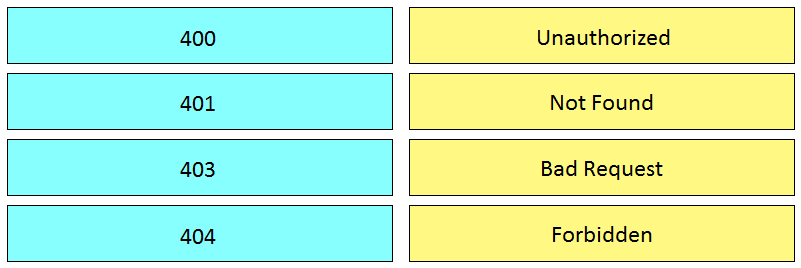
Question #42*Topic 1*

DRAG DROP -  
Refer to the exhibit.  
  
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:  


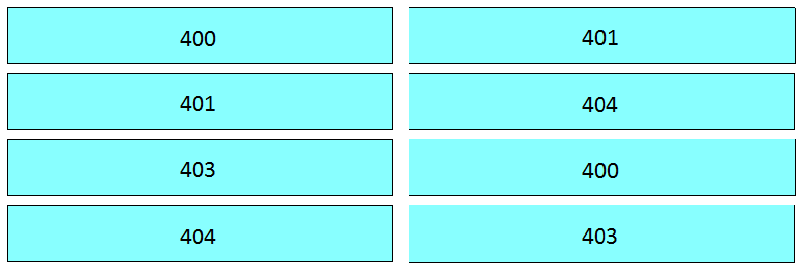
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**Correct Answer:** **  
Reference:  
https://medium.com/@fotios.floros/linux-backup-script-1722cc9c2bf6  
(use tar in order to create your backup file)

Question #43*Topic 1*

DRAG DROP -  
Drag and drop the HTTP status codes from the left onto the correct descriptions on the right.  
Select and Place:  


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

Question #44*Topic 1*

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

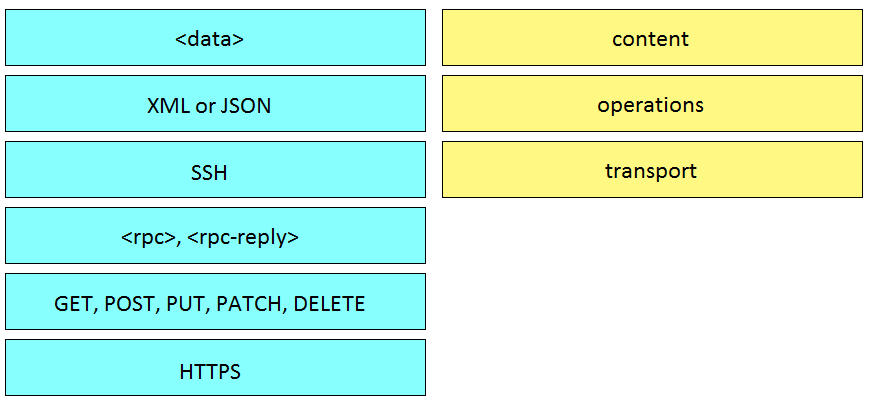
* A. DevNet Code Exchange
* B. DevNet Sandbox
* C. DevNet Communities
* D. DevNet Automation Exchange

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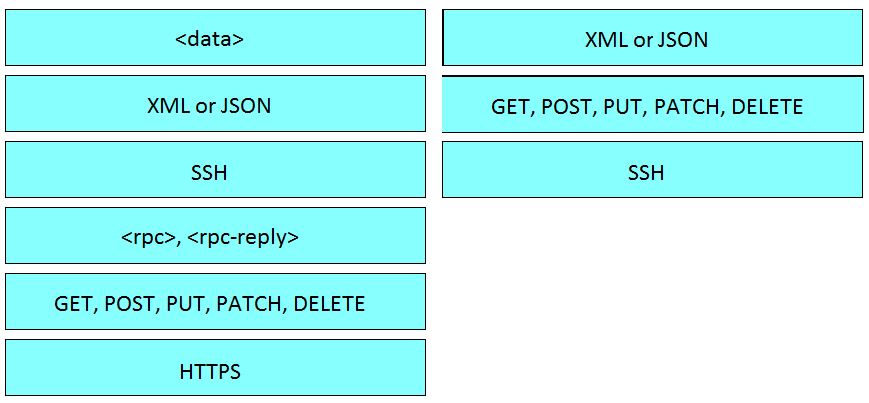
**Correct Answer:** *B*  
Reference:  
https://developer.cisco.com/site/sandbox/

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uestion #37*Topic 1*

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:  


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**Correct Answer:** **  
Reference:  
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b\_169\_programmability\_cg/restconf\_programmable\_interface.html

Question #38*Topic 1*

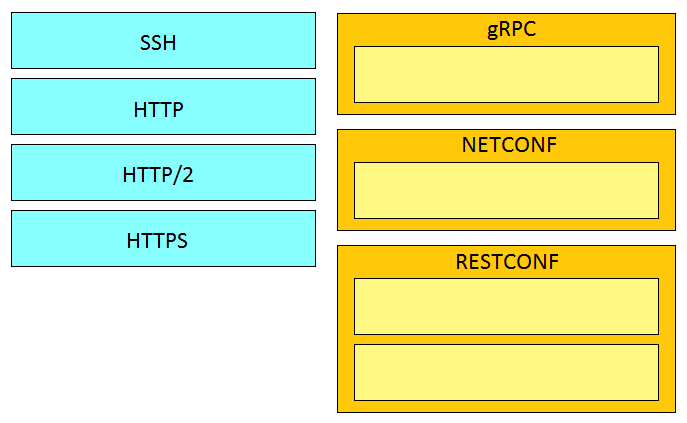
What is the benefit of edge computing?

* 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.

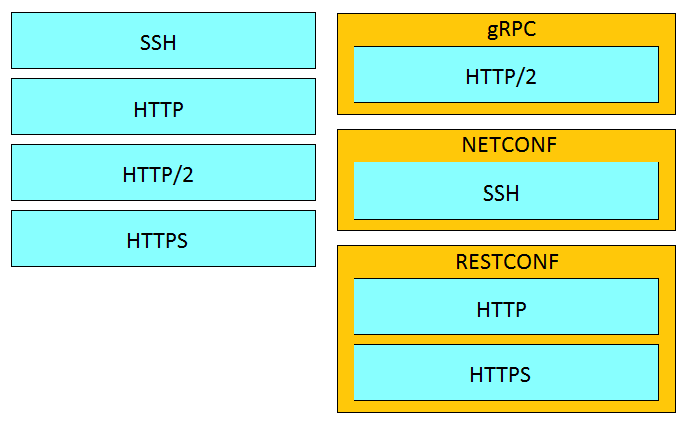
[Hide Solution](https://www.examtopics.com/exams/cisco/200-901/view/10/) [Discussion   **1**](https://www.examtopics.com/exams/cisco/200-901/view/10/)

**Correct Answer:** *A*  
Reference:  
https://blogs.cisco.com/networking/time-to-get-serious-about-edge-computing

Question #39*Topic 1*

DRAG DROP -  
Drag and drop the network automation interfaces from the left onto the transport protocols that they support on the right.  
Select and Place:  


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**Correct Answer:** **

Question #40*Topic 1*

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.

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**Correct Answer:** *See explanation below.*  
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

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Question #33*Topic 1*

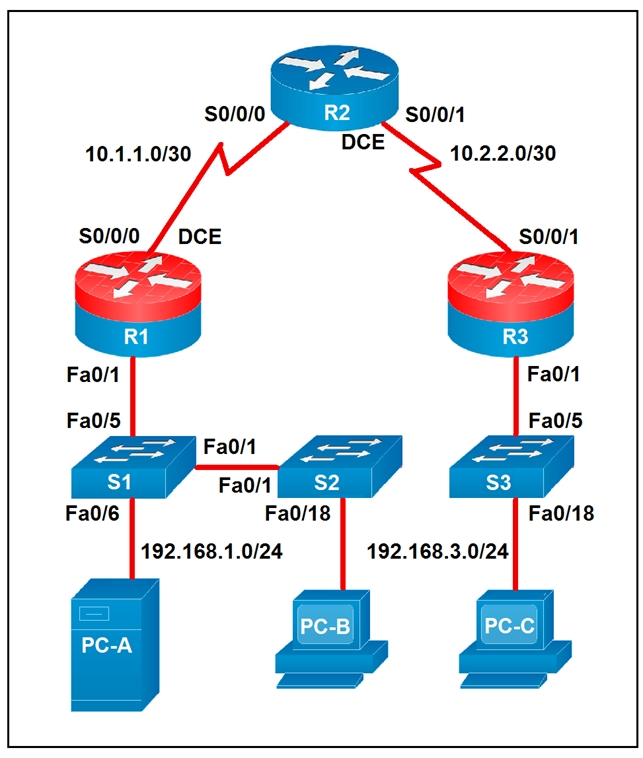
Which two statements about JSON and XML are true? (Choose two.)

* 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.

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**Correct Answer:** *DE*  
References:  
https://en.wikipedia.org/wiki/JSON  
https://www.w3schools.com/xml/xml\_elements.asp

Question #34*Topic 1*

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.

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**Correct Answer:** *BE*

Question #35*Topic 1*

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.

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**Correct Answer:** *D*

Question #36*Topic 1*

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

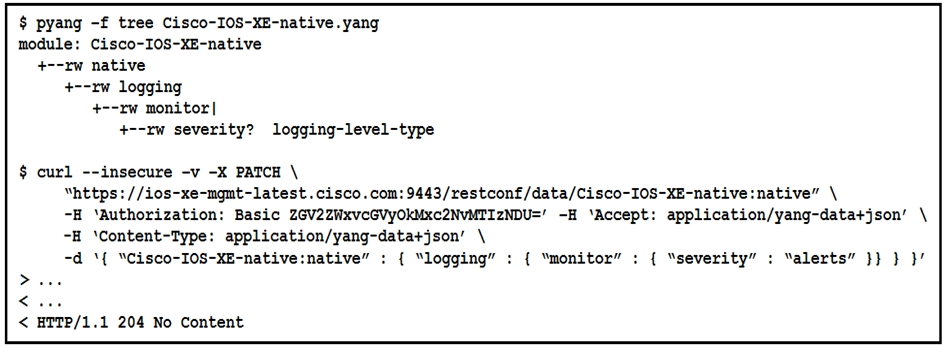
* A. @@ -20191007T1200 +88,90 @@
* B. @@ -88,10 +88,6 @@
* C. @@ -90,88 +20191008T1349 @@
* D. @@ -20191007T1200 +20191008T1349 @@

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

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Question #29*Topic 1*

Refer to the exhibit.  
  
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.

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**Correct Answer:** *B*  
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*Topic 1*

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

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**Correct Answer:** *C*  
Reference:  
https://www.speaknetworks.com/cisco-virl-better-gns3/

Question #31*Topic 1*

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

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**Correct Answer:** *B*

Question #32*Topic 1*

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

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

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

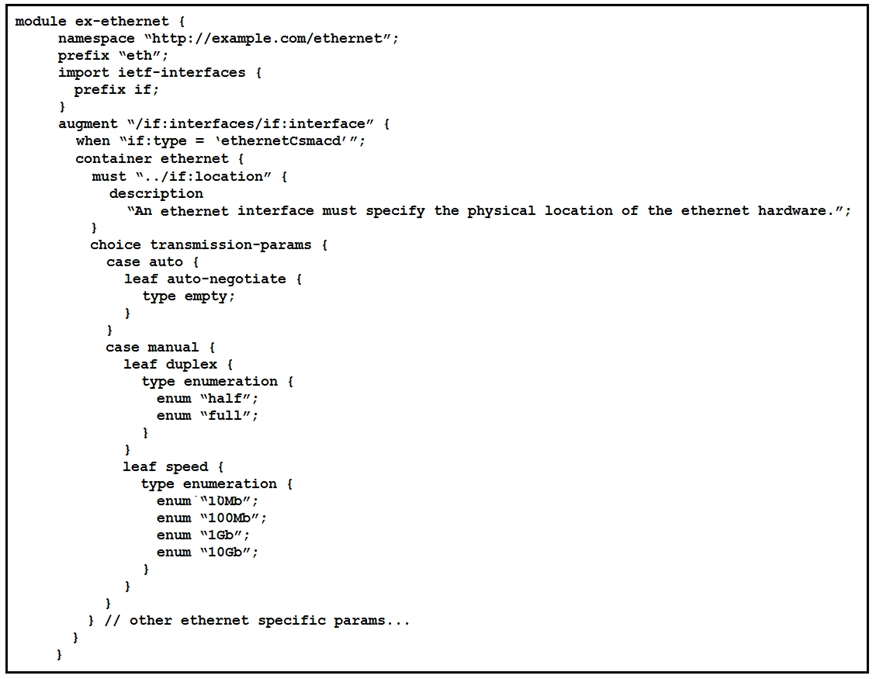
Which two types of NAT are used in a network? (Choose two.)

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

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

Question #26*Topic 1*

Refer to the exhibit.  
  
What is represented in this YANG module?

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

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

Question #27*Topic 1*

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.

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**Correct Answer:** *A*

Question #28*Topic 1*

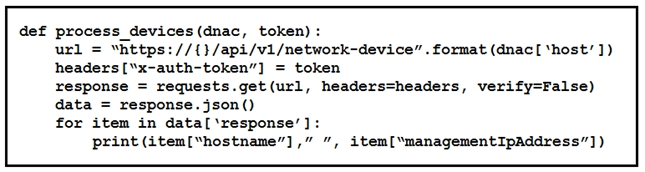
Which CI/CD tool is an automation tool used to build, test, and deploy software?

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

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

[Previous Questions](https://www.examtopics.com/exams/cisco/200-901/view/6/)[Next Questions](https://www.examtopics.com/exams/cisco/200-901/view/8/)

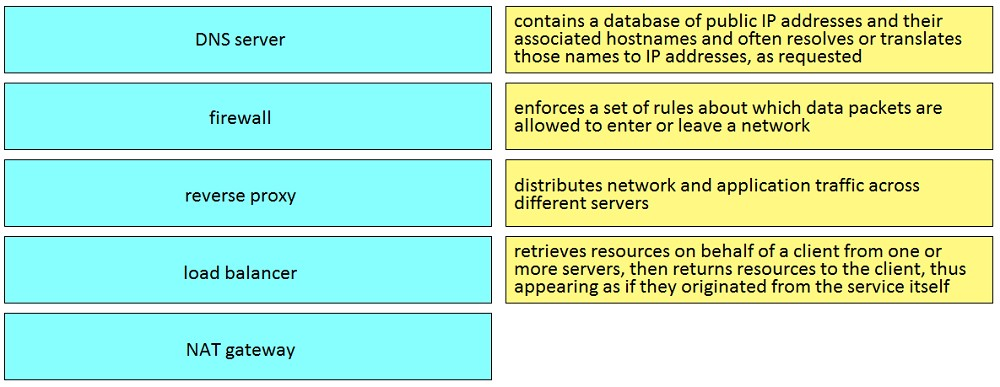
efer to the exhibit.  
  
What is the function of the Python script?

* 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.

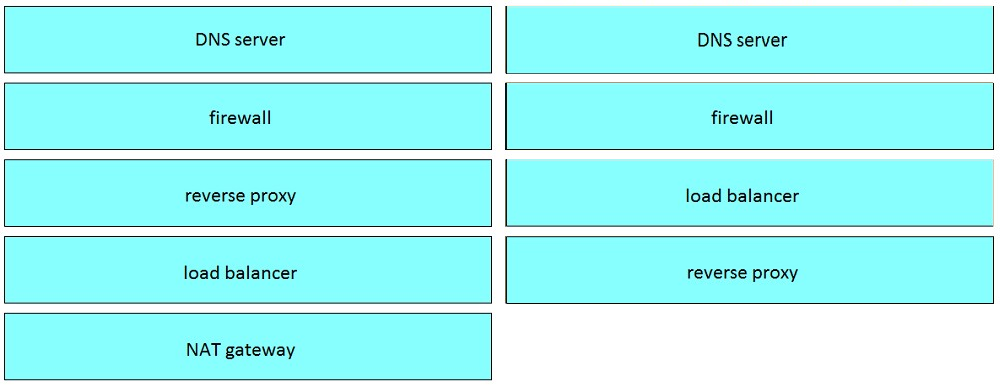
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**Correct Answer:** *B*

Question #22*Topic 1*

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:  


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**Correct Answer:** **

Question #23*Topic 1*

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

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**Correct Answer:** *See explanation below.*  
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*Topic 1*

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

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

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**Correct Answer:** *A*  
Reference:  
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b\_1610\_programmability\_cg/gnmi\_protocol.html

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Question #17*Topic 1*

Which platform is run directly using a hypervisor?

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

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**Correct Answer:** *B*

Question #18*Topic 1*

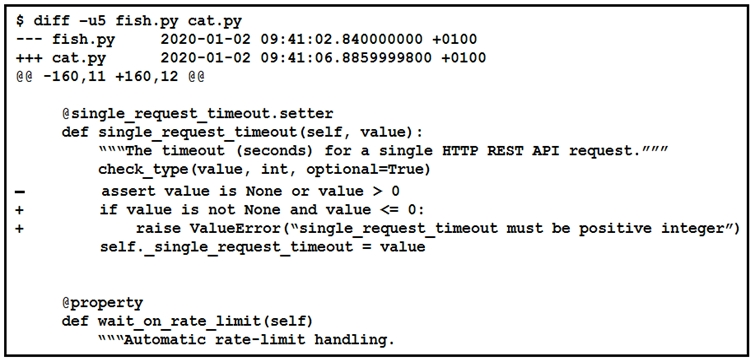
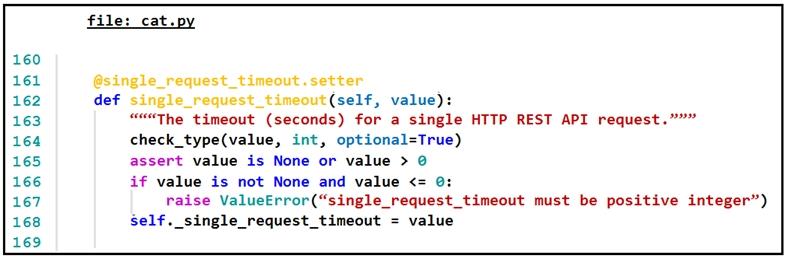
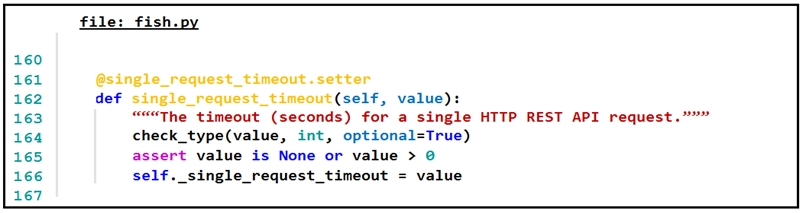
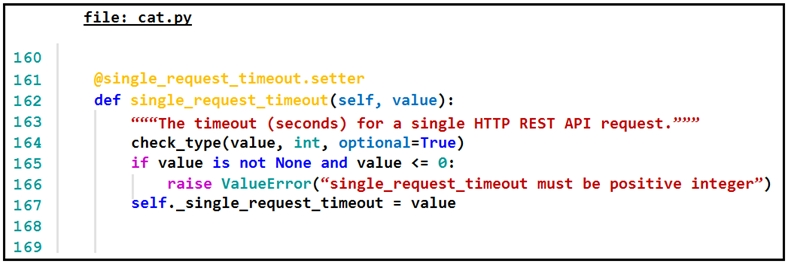
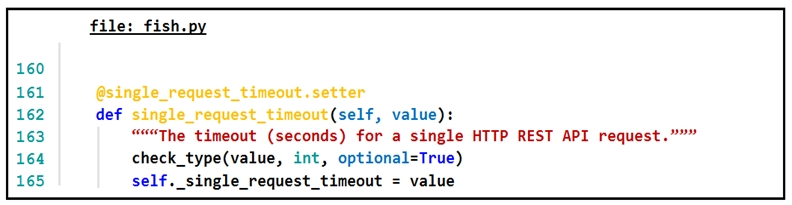
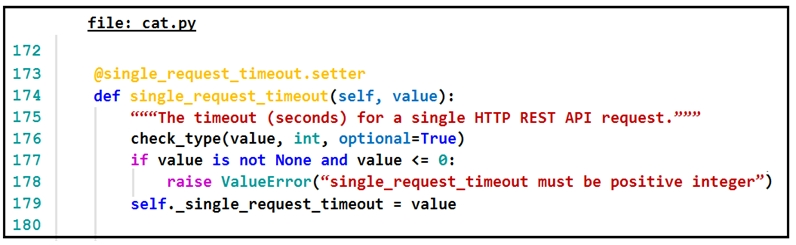
What are two advantages of version control software? (Choose two.)

* 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.

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**Correct Answer:** *AC*  
Version control is a way to keep a track of the changes in the code so that if something goes wrong, we can make comparisons in different code versions and revert to any previous version that we want. It is very much required where multiple developers are continuously working on /changing the source code.

Question #19*Topic 1*

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? (Choose two.)  
A.  
  
B.  
  
C.  
  
D.  
  
E.  


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**Correct Answer:** *AB*

Question #20*Topic 1*

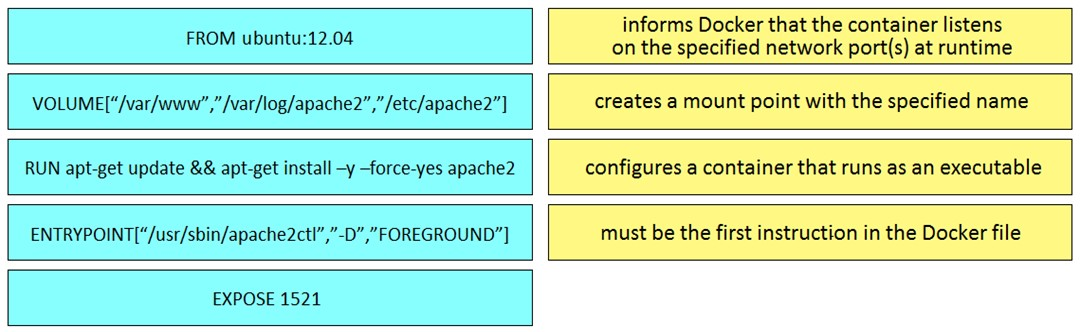
What are two benefits of managing network configuration via APIs? (Choose two.)

* 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

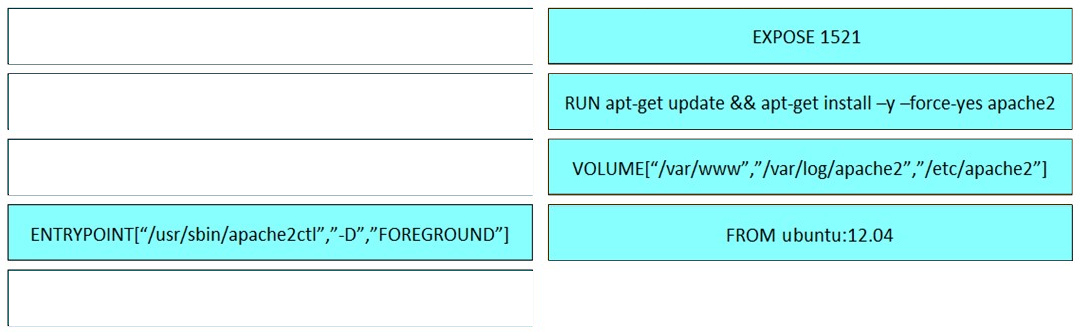
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**Correct Answer:** *DE*

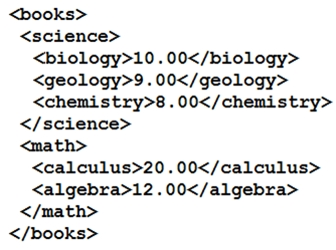
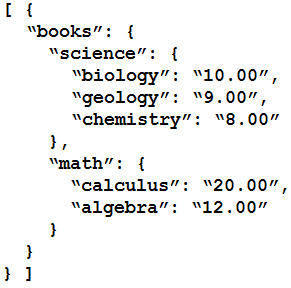
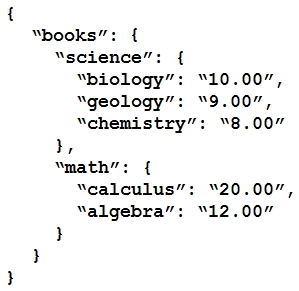
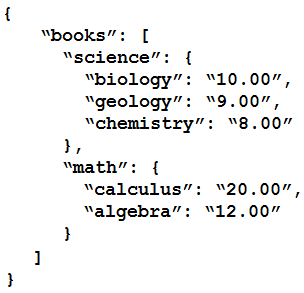
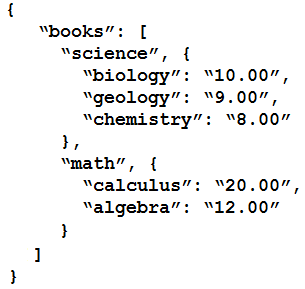
Question #13*Topic 1*

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:  


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**Correct Answer:** **

Question #14*Topic 1*

Refer to the exhibit.  
  
Which JSON is equivalent to the XML-encoded data?  
A.  
  
B.  
  
C.  
  
D.  


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**Correct Answer:** *C*  
Reference:  
https://www.guru99.com/json-vs-xml-difference.html

Question #15*Topic 1*

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.

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**Correct Answer:** *A*  
Reference:  
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Functions

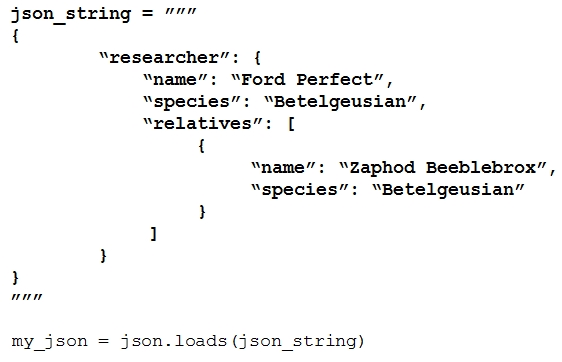
Question #16*Topic 1*

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)

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**Correct Answer:** *See explanation below.*  
devnetuser  
requests  
header  
Reference:  
https://developer.cisco.com/docs/apic-em/#!hello-world

Question #9*Topic 1*

Refer to the exhibit.  
  
Which Python data structure does my\_json contain?

* A. map
* B. list
* C. json
* D. dict

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

Question #10*Topic 1*

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

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

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**Correct Answer:** *A*  
Reference:  
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b\_166\_programmability\_cg/restconf\_prog\_int.html

Question #11*Topic 1*

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

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**Correct Answer:** *AC*  
Reference:  
https://www.cisco.com/c/dam/en/us/products/collateral/cloud-systems-management/cloudcenter/white-paper-c11-737221.pdf

Question #12*Topic 1*

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

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**Correct Answer:** *A*  
Reference:  
https://ns1.com/resources/dns-types-records-servers-and-queries

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.

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

Question #6*Topic 1*

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.

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**Correct Answer:** *BD*  
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*Topic 1*

On which port does NETCONF operate by default?

* A. 23
* B. 443
* C. 822
* D. 830

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**Correct Answer:** *D*

Question #8*Topic 1*

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

Question #1*Topic 1*

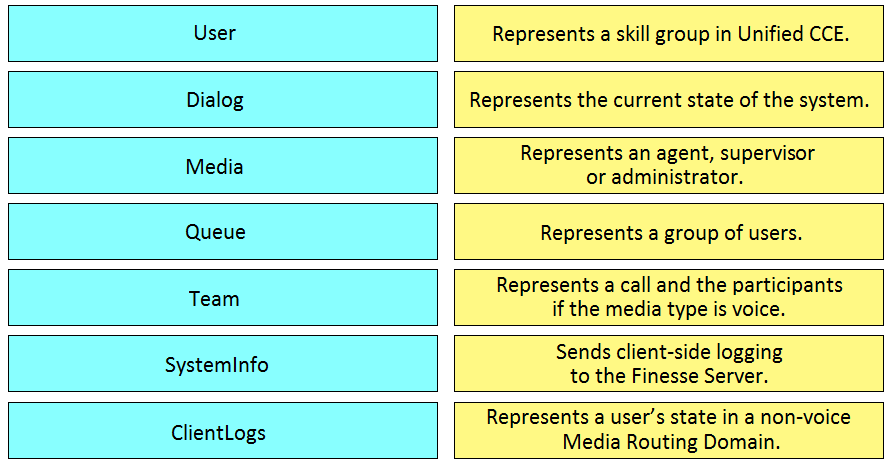
Which two statements describe the advantages of using a version control system? (Choose two.)

* 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.

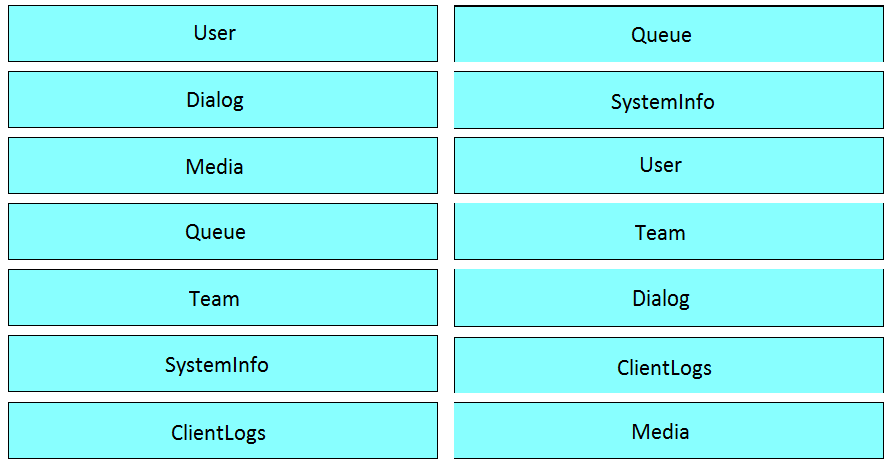
[Hide Solution](https://www.examtopics.com/exams/cisco/200-901/view/1/) [Discussion   **6**](https://www.examtopics.com/exams/cisco/200-901/view/1/)

**Correct Answer:** *AD*  
Reference:  
https://www.agileconnection.com/article/picking-right-branch-merge-strategy

Question #2*Topic 1*

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:  


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**Correct Answer:** **  
Reference:  
https://developer.cisco.com/docs/finesse/#!cisco-finesse-desktop-apis

Question #3*Topic 1*

Which product provides network controller-level management features?

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

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**Correct Answer:** *B*  
Reference:  
https://www.cisco.com/c/en/us/products/cloud-systems-management/index.html

Question #4*Topic 1*

Refer to the exhibit.  
https://www.examtopics.com/assets/media/exam-media/03162/0000500001.png  
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

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**Correct Answer:** *C*

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**Social Media**