

## Exam Questions 200-901

Developing Applications and Automating Workflows using Cisco Core Platforms (DEVASC)

<https://www.2passeasy.com/dumps/200-901/>



**NEW QUESTION 1**

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

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

**Answer: A**

**NEW QUESTION 2**

Refer to the exhibit.

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

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

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

**Answer: B**

**NEW QUESTION 3**

Which product provides network controller-level management features?

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

**Answer: A**

**NEW QUESTION 4**

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

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

**Answer: C**

**NEW QUESTION 5**

What is the outcome of executing this command?

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

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

**Answer: A**

**NEW QUESTION 6**

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 7**

Refer to the exhibit.

```
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"  
        }  
    ]  
}
```

Which python data structure does my\_json contain?

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

**Answer:** D

**NEW QUESTION 8**

Refer to the exhibit.

URL: https://<ASA\_IP>/api/access/global/rules  
Method: POST  
Payload:

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

Response Status Code: 400 Bad Request

```
{"messages":[{"level":"Error","code":"JSON-PARSE-ERROR","details":"Unexpected character ('\u0022' (code 34)):"}
```

What caused the error in this API request?

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

Answer: D

#### NEW QUESTION 9

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

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

Answer: D

#### NEW QUESTION 10

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

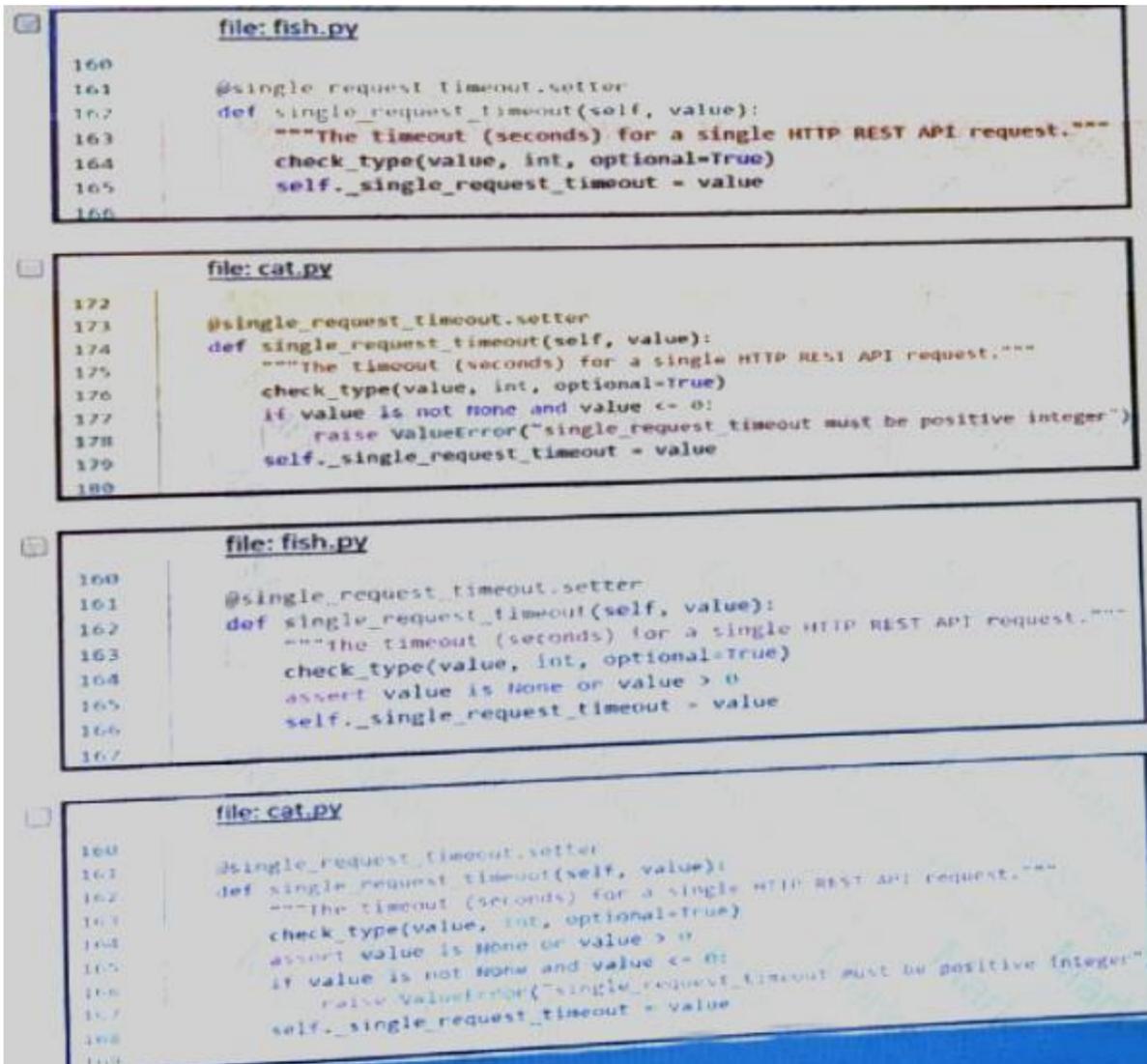
- A. devnet & output.txt
- B. devnet > output.txt
- C. devnet < output.txt
- D. devnet | output.txt

Answer: B

#### NEW QUESTION 10

Fill in the blanks to complete the statement.

Cisco DNA provide the capability to send an HTTP \_\_\_\_\_ request to the API endpoint [https://DNA-c\\_API\\_ADDRESS/api/vi/network-device/](https://DNA-c_API_ADDRESS/api/vi/network-device/) and receive the network \_\_\_\_\_ list in \_\_\_\_\_ format.

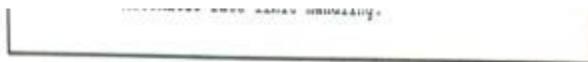


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution below as



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

The image shows a unified diff output with three code listings. The first listing is for cat.py (lines 173-180) and is labeled 'A'. The second listing is for cat.py (lines 142-149) and is labeled 'B'. The third listing is for fish.py (lines 160-167) and is labeled 'C'. The labels A, B, and C are handwritten in blue ink.

**NEW QUESTION 15**

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

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

D. Git

**Answer:** C

#### NEW QUESTION 19

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

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

**Answer:** A

#### NEW QUESTION 24

Refer to the exhibit.

```
>>> 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']
```

What caused the error in this API request?

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

**Answer:** D

#### NEW QUESTION 29

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

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

**Answer:** BC

#### NEW QUESTION 33

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

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

**Answer:** D

#### NEW QUESTION 36

Which PAI is used to obtain data voicemail ports?

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

**Answer:** B

#### NEW QUESTION 37

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

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

```
HTTP GET /v1/rooms
```

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

Answer: B

**NEW QUESTION 42**

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

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

Answer: CE

**NEW QUESTION 45**

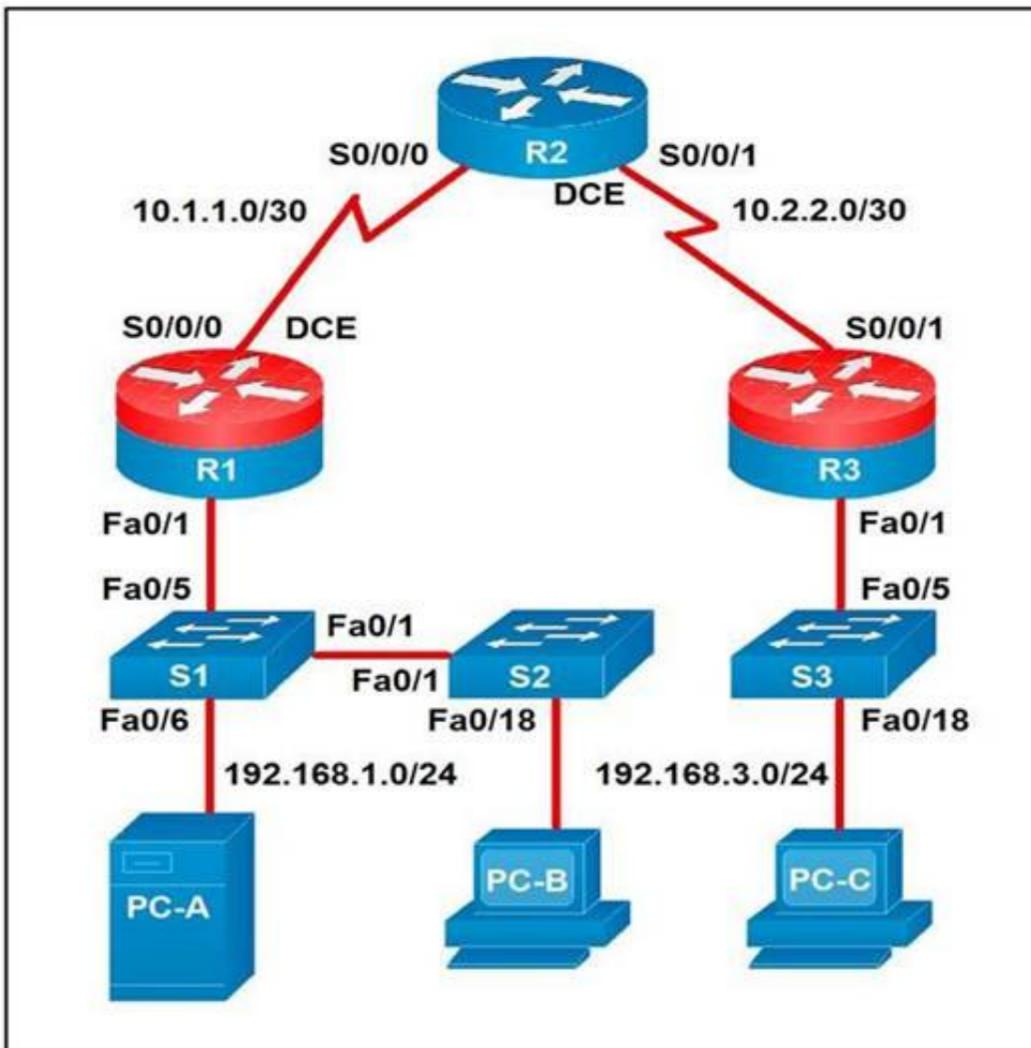
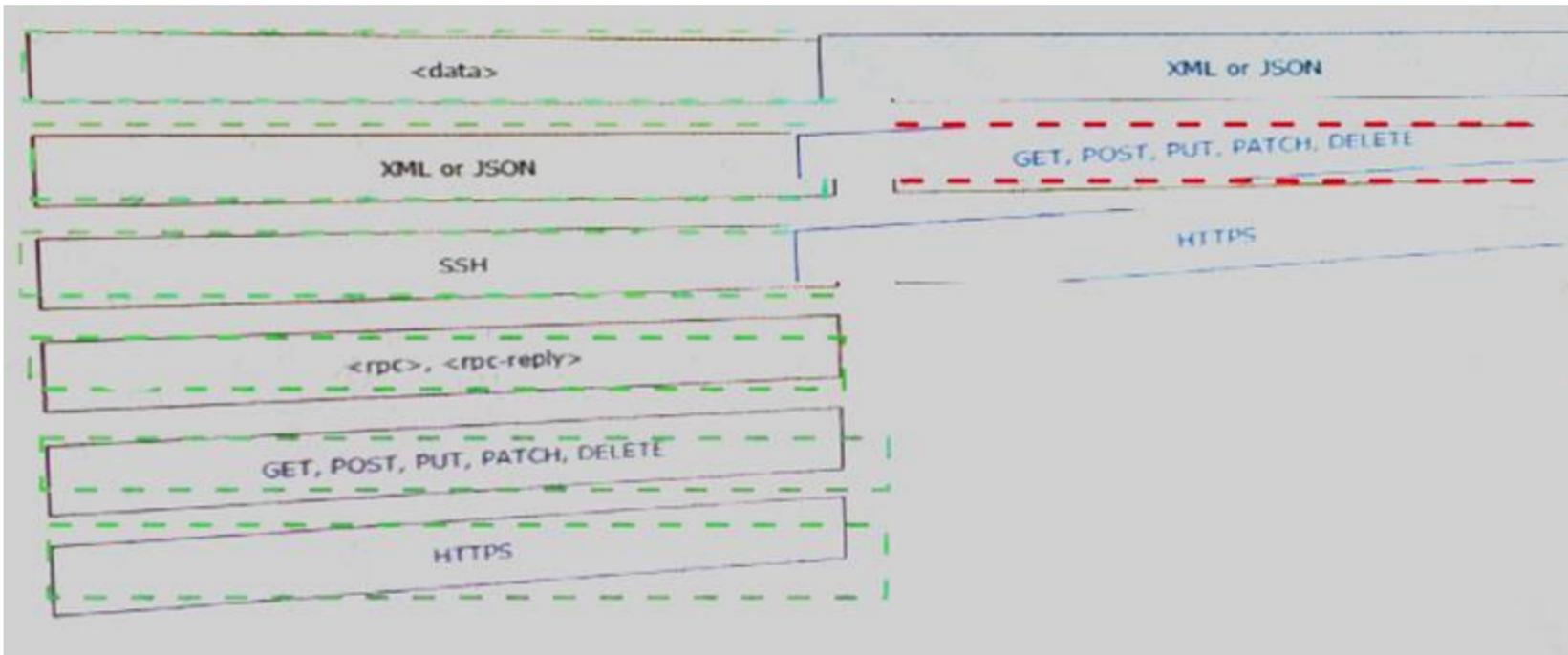
What are two characteristics of Bare Metal environments that are related to application deployment? (Choose two.)

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

Answer: CD

**NEW QUESTION 48**

Refer to the exhibit.



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

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

Answer: C

**NEW QUESTION 53**

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

```
List the networks in a Meraki organization:

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

1 – B, 2 – E, 3 - F

**NEW QUESTION 55**

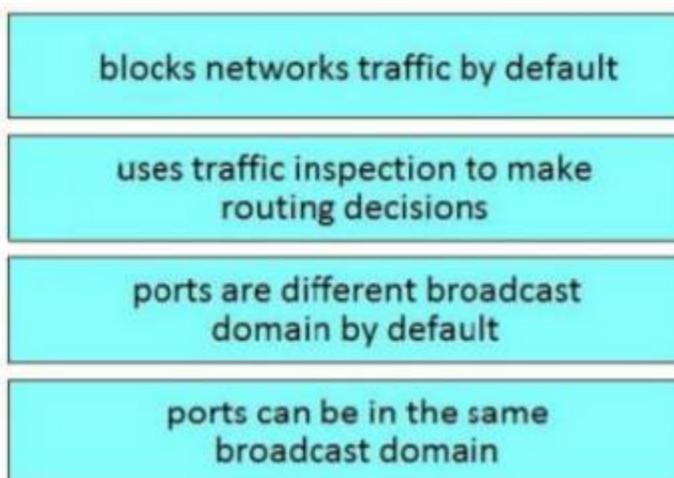
Which two statements describe the advantages of using a version control system? (Choose two.)

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

**Answer:** AB

**NEW QUESTION 59**

Refer to the exhibit.



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

```
---
- 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
```

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

**Answer:** B

#### NEW QUESTION 64

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

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

**Answer:** B

#### NEW QUESTION 66

Refer to the exhibit.

URL: [https://<ASA\\_IP>/api/access/global/rules](https://<ASA_IP>/api/access/global/rules)  
Method: POST  
Payload:

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

Response Status Code: 400 Bad Request

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

What is the function of the python script?

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

Answer: E

#### NEW QUESTION 70

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

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

Answer: D

#### NEW QUESTION 73

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

```
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...
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

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

**NEW QUESTION 78**

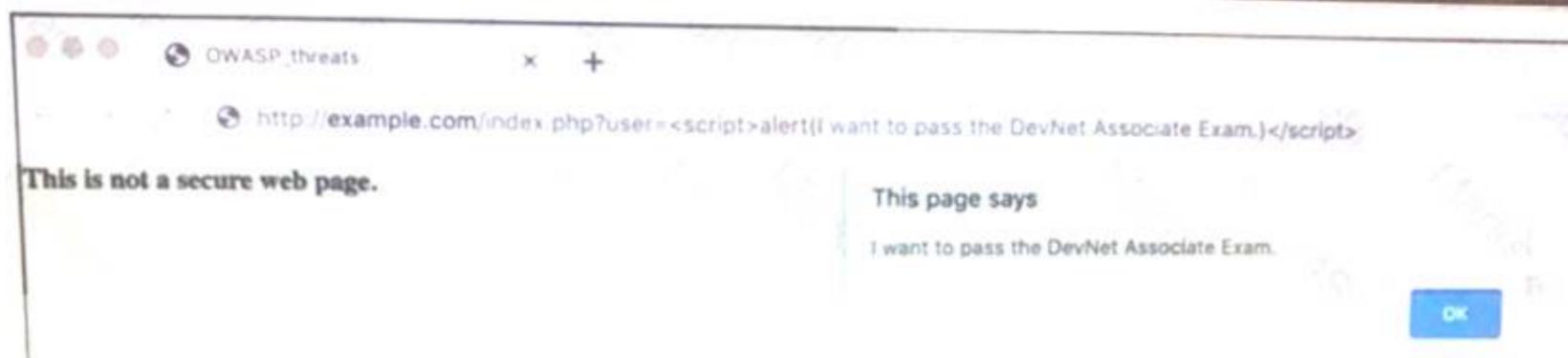
Which action does the Git command git merge allow the development to perform?

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

Answer: A

**NEW QUESTION 82**

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
```

- A. Mastered
- B. Not Mastered

Answer: A

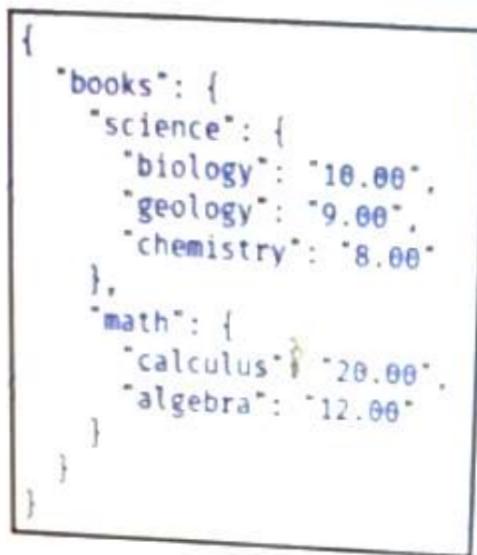
**Explanation:**

See the solution below.

```
<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>
```

#### NEW QUESTION 86

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



- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

1 – B, 2 – E, 3 – C, 4 – D, 5 – A

#### NEW QUESTION 88

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

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

**Answer:** D

#### NEW QUESTION 93

What is the benefit of edge computing?

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

**Answer:** A

#### NEW QUESTION 94

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

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

**Answer:** BE

**NEW QUESTION 99**

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

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

**Answer:** AC

**NEW QUESTION 100**

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

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

**Answer:** CE

**NEW QUESTION 101**

Refer to the exhibit.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 103**

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

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

**Answer:** A

**NEW QUESTION 106**

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

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

params	get
networks	base_url
timespan	networks
get	network_id
432000	clients
base_url	api_key
application/json	application/json
network_id	params
clients	timespan
api_key	432000

NEW QUESTION 108

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