



Cisco

Exam Questions 200-901

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

NEW QUESTION 1

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

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

Answer: DE

NEW QUESTION 2

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

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

Answer: B

NEW QUESTION 3

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)

400	Unauthorized
401	Not Found
403	Bad Request
404	Forbidden

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Grpc == http/2 , netconfig == ssh , restconfig == https

NEW QUESTION 4

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 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

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

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

Answer: CE

NEW QUESTION 7

Which way should be used to safely the API keys?

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

Answer: B

NEW QUESTION 8

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

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

Answer: B

NEW QUESTION 9

Which is an advantage of using network programmability?

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

Answer: B

NEW QUESTION 10

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 ('\n' (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 10

Refer to the exhibit.

List the clients that have used this network in the timespan

HTTP REQUEST

GET /networks/{networkId}/clients

PARAMETERS

t0
 The beginning of the timespan for the data. The maximum lookback period is 31 days from today.

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

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

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

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

base_url = "https://api.meraki.com/api/v0"

```
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"])
```

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

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Embedded software that enables Cisco server, fabric, and storage provisioning.	Intersight

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 12

Refer to the exhibit.

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

?sortBy=lastactivity

```
<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 14

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 15

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 mut be at fault?

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

Answer: D

NEW QUESTION 18

Which description of a default gateway is true?

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

Answer: A

NEW QUESTION 21

Refer to the exhibit.

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

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

☒ {
 "IPPeer": "10.1.1.1"
 }
☐ {
 "IPPeer": "10.1.1.1 2001:db::1"
 }
☒ {
 "IPPeer": [
 "10.1.1.1",
 "2001:db::1"
]
 }
☐ {
 "IPPeer": [
 "10.1.1.1"
]
 }

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 23

What is an example of a network interface hardware address?

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

Answer: D

NEW QUESTION 26

Refer to the exhibit.

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

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

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 28**

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 31**

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 35**

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

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

Answer: B**NEW QUESTION 40**

On which port does NETCONF operate by default?

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

Answer: D**NEW QUESTION 45**

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

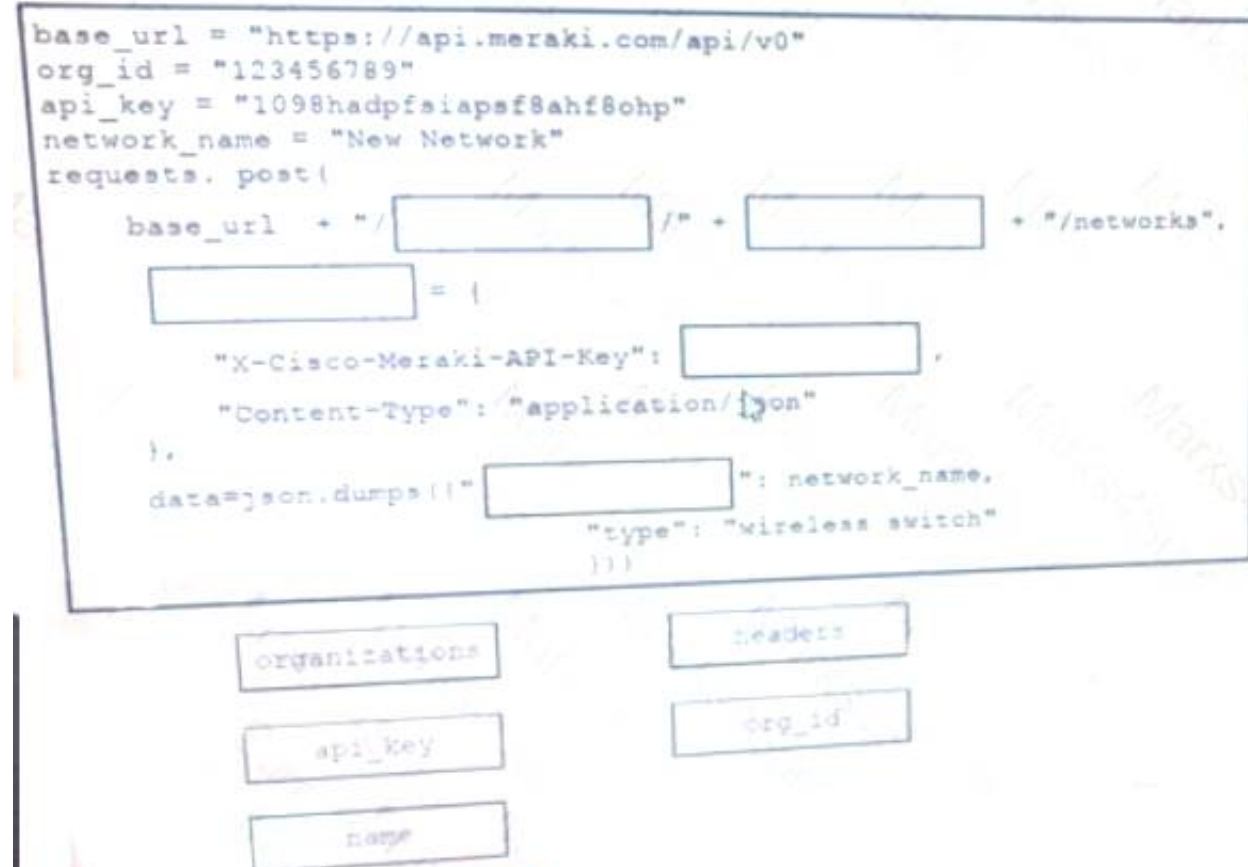
Answer: A

Explanation:

1 – B, 2 – E, 3 - F

NEW QUESTION 50

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



The screenshot shows a Python code snippet for the Meraki API. The code defines variables for base_url, org_id, api_key, and network_name, and then uses requests.post() to create a new network. The code is as follows:

```
base_url = "https://api.meraki.com/api/v0"
org_id = "123456789"
api_key = "1098hadpfaiapsf8ahf8ohp"
network_name = "New Network"
requests.post(
    base_url + "/" + [ ] + "/" + [ ] + "/networks",
    [ ] = {
        "X-Cisco-Meraki-API-Key": [ ],
        "Content-Type": "application/json"
    },
    data=json.dumps({
        [ ]: network_name,
        "type": "wireless switch"
    })
)
```

Below the code, there are five boxes for drag-and-drop: organizations, api_key, name, headers, and org_id.

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

1 – D, 2 – C, 3 – A, 4 – B

NEW QUESTION 54

Refer to the exhibit.



The screenshot shows a network diagram on the left and a list of four options on the right. The options are:

- blocks networks traffic by default
- uses traffic inspection to make routing decisions
- ports are different broadcast domain by default
- ports can be in the same broadcast domain

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 59

What is the purpose of a MAC address?

- A. To uniquely identify a router in a LAN
- B. To uniquely identify a network interface in a LAN
- C. To uniquely identify a device on the internet
- D. To uniquely identify a switch in a LAN

Answer: B

NEW QUESTION 60

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 61

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

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

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 65
Refer to the exhibit.

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

1 – A, 2 – C, 3 – B

NEW QUESTION 70

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 75

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

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

Answer: CD

NEW QUESTION 76

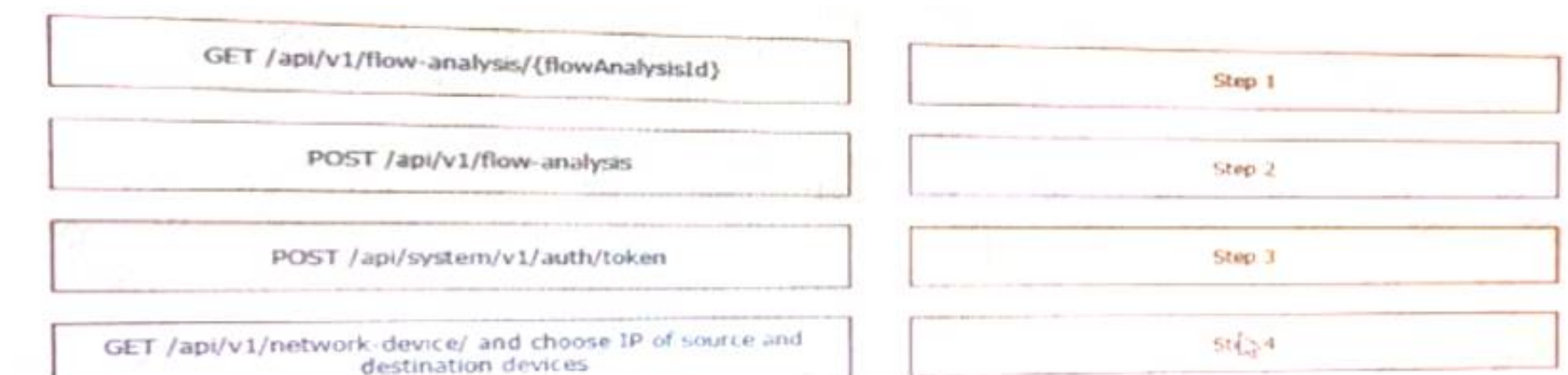
Which two encoding formats do YANG interfaces support?

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

Answer: AB

NEW QUESTION 80

Refer to the exhibit.



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

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

Answer: AC

NEW QUESTION 84

On which network plane is routing protocol traffic handled?

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

Answer: D

NEW QUESTION 87

What is the benefit of edge computing?

- A. It reduces ne two« k latency by moving processing doser to the data source.
- B. It simplifies security as devices and processing are brought doser 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 91

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

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

Answer: AD

NEW QUESTION 96

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 97

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

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

Answer: D

NEW QUESTION 100

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

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

Answer: D

NEW QUESTION 102

Fill in the blanks to complete the statement.

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 104

Which statement describes the benefit of using functions in programming?

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

Answer: A

NEW QUESTION 108

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

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

Answer: BC

NEW QUESTION 112

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

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

Answer: D

NEW QUESTION 113

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 118

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