

Cisco

Exam Questions 350-901

Developing Applications using Cisco Core Platforms & APIs



NEW QUESTION 1

A developer has created an application based on customer requirements. The customer needs to run the application with the minimum downtime. Which design approach regarding high-availability applications, Recovery Time Objective, and Recovery Point Objective must be taken?

- A. Active/passive results in lower RTO and RP
- B. For RPO, data synchronization between the two data centers must be timely to allow seamless request flow.
- C. Active/passive results in lower RTO and RP
- D. For RPO, data synchronization between the two data centers does not need to be timely to allow seamless request flow.
- E. Active/active results in lower RTO and RP
- F. For RPO, data synchronization between the two data centers does not need to be timely to allow seamless request flow.
- G. Active/active results in lower RTO and RP
- H. For RPO, data synchronization between the two data centers must be timely to allow seamless request flow.

Answer: A

NEW QUESTION 2

An organization manages a large cloud-deployed application that employs a microservices architecture. No notable issues occur with downtime because the services of this application are redundantly deployed over three or more data center regions. However, several times a week reports are received about application slowness. The container orchestration logs show faults in a variety of containers that cause them to fail and then spin up brand new. Which action must be taken to improve the resiliency design of the application while maintaining current scale?

- A. Update the base image of the containers.
- B. Test the execution of the application with another cloud services platform.
- C. Increase the number of containers running per service.
- D. Add consistent “try/catch(exception)” clauses to the code.

Answer: D

NEW QUESTION 3

How should a web application be designed to work on a platform where up to 1000 requests per second can be served?

- A. Use algorithms like random early detection to deny excessive requests.
- B. Set a per-user limit (for example, 5 requests/minute/user) and deny the requests from the users who have reached the limit.
- C. Only 1000 user connections are allowed; further connections are denied so that all connected users can be served.
- D. All requests are saved and processed one by one so that all users can be served eventually.

Answer: D

NEW QUESTION 4

Which two statements about a stateless application are true? (Choose two.)

- A. Different requests can be processed by different servers.
- B. Requests are based only on information relayed with each request.
- C. Information about earlier requests must be kept and must be accessible.
- D. The same server must be used to process all requests that are linked to the same state.
- E. No state information can be shared across servers.

Answer: AB

NEW QUESTION 5

DRAG DROP

Drag and drop the characteristics from the left onto the correct data processing techniques on the right, in the context of GDPR. Select and Place:

Answer Area

- processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information
- data stripped of sufficient elements such that the data subject can no longer be identified
- can be re-identified
- cannot be re-identified

Data anonymization

Data pseudonymization

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information

data stripped of sufficient elements such that the data subject can no longer be identified

can be re-identified

cannot be re-identified

Data anonymization

can be re-identified

data stripped of sufficient elements such that the data subject can no longer be identified

Data pseudonymization

cannot be re-identified

processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information

NEW QUESTION 6

Which transport protocol is used by gNMI?

- A. HTTP/2
- B. HTTP 1.1
- C. SSH
- D. MQTT

Answer: A

NEW QUESTION 7

Which two methods are API security best practices? (Choose two.)

- A. Use tokens after the identity of a client has been established.
- B. Use the same operating system throughout the infrastructure.
- C. Use encryption and signatures to secure data.
- D. Use basic auth credentials over all internal API interactions.
- E. Use cloud hosting services to manage security configuration.

Answer: AC

NEW QUESTION 8

A user is receiving a 429 Too Many Requests error. Which scheme is the server employing that causes this error?

- A. rate limiting
- B. time outs
- C. caching
- D. redirection

Answer: A

NEW QUESTION 9

```
import request
import json

meraki_api_key = "<api key>"
url =
"https://api.meraki.com/api/v0/organizations/1234567890/devices"
headers = {
    "X-Cisco-Meraki-API-Key": meraki_api_key,
}
params = {
    "perPage": 3
}
res = requests.get(url, headers=headers, params=params)
formatted_message = """
Meraki Dashboard API Response
-----
Response Status Code : {}
Response Link Header : {}
Response Body        : {}
-----
""".format(res.status_code, res.headers.get('Link'),
json.dumps(res.json(), indent=4))
print(formatted_message)
```

```
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?perPage=
3&startingAfter=0000-0000-0000>; rel=first,
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?perPage=
3&startingAfter=Q2EK-3UBE-RRUY>; rel=next,
<https://n6.meraki.com/api/v0/organizations/1234567890/devices?
endingBefore=zzzz-zzzz-zzzz&perPage=3>; rel=last
```

Refer to the exhibit. Which line of code must be added to this code snippet to allow an application to pull the next set of paginated items?

- A. requests.get(url, links=['next']['url'])
- B. requests.get(url, headers=links['next']['url'])
- C. requests.get(res.links['next']['url'], headers=headers)
- D. requests.get(res.headers.get('Link')['next']['url'], headers=headers)

Answer: C

NEW QUESTION 10

Which snippet presents the correct API call to configure, secure, and enable an SSID using the Meraki API?

- A.

```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"name": "My SSID",
"enabled": false,
"authMode": "psk",
"encryptionMode": "wpa",
"psk": "meraki123",
"wpaEncryptionMode": "WPA1 and WPA2"
}'
```
- B.

```
curl -X PUT \
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \
-H 'Accept: application/json' \
-H 'Content-type: application/json' \
--data-raw '{
"name": "My SSID",
"enabled": true,
"authMode": "psk",
"encryptionMode": "wpa",
"psk": "meraki123",
"wpaEncryptionMode": "WPA1 and WPA2"
}'
```
- C.


```
curl -X PUT \  
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \  
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \  
-H 'Accept: application/json' \  
-H 'Content-type: application/json' \  
--data-raw '{  
  "enabled": true,  
  "useVlanTagging": true  
'
```

D.

```
curl -X PUT \  
--url 'https://api.meraki.com/api/v0/networks/:networkId/ssids/2' \  
-H 'X-Cisco-Meraki-API-Key: 15da0c6ffff295f16267f88f98694cf29a86ed87' \  
-H 'Accept: application/json' \  
-H 'Content-type: application/json' \  
--data-raw '{  
  "name": "My SSID",  
  "enabled": true,  
'
```

Answer: B

NEW QUESTION 10

The UCS Python SDK includes modules for Service Profile template creation. Which two UCS Service Profile template types are supported? (Choose two.)

- A. initial-template
- B. updating-template
- C. abstract-template
- D. attached-template
- E. base-template

Answer: AB

NEW QUESTION 15

```
import http.client  
  
conn = http.client.HTTPSConnection("dnac.cisco.com")  
  
headers = {  
    '__runsync': "true",  
    '__timeout': "30",  
    '__persistbapioutput': "true",  
}  
  
conn.request("□", "/dna/intent/api/v1/□?timestamp=10000", headers=headers)  
  
res = conn.getresponse()  
data = res.read()  
  
print(data.decode("utf-8"))
```

Refer to the exhibit. Which configuration of method and parameter retrieves the health of a laptop connected to the network from Cisco DNA Center?

- A. PUT; network-health;
- B. GET; client-health;
- C. GET; network-device;
- D. POST; network-device;

Answer: C

NEW QUESTION 17

```
node 'default' {
  cisco_yang_netconf { 'my-config':
    target => '<vrf xmlns='http://cisco.com/ns/yang/Cisco-IOS-XR-infra-rsi-cfg'>',
    source => '<vrf xmlns='http://cisco.com/ns/yang/Cisco-IOS-XR-infra-rsi-cfg'>
      <vrf>
        <vrf-name>VOIP</vrf-name>
        <create/>
        <description>Voice over IP</description>
        <vpn-id>
          <vpn-oui>875</vpn-oui>
          <vpn-index>3</vpn-index>
        </vpn-id>
      </vrf>
      <vrf>
        <vrf-name>INTERNET</vrf-name>
        <create/>
        <description>Generic external traffic</description>
        <vpn-id>
          <vpn-oui>875</vpn-oui>
          <vpn-index>22</vpn-index>
        </vpn-id>
      </vrf>
    </vrf>
  }
  mode => ,
  force => ,
}
```

Refer to the exhibit. This script uses ciscoyang to configure two VRF instances on a Cisco IOS-XR device using the Yang NETCONF type. Which two words are required to complete the script? (Choose two.)

- A. ensure
- B. commit
- C. false
- D. replace
- E. none

Answer: CD

NEW QUESTION 18

While developing an application following the 12-factor app methodology, which approach should be used in the application for logging?

- A. Write a log to a file in the application directory.
- B. Write a log to a file in /var/log.
- C. Write the logs buffered to stdout.
- D. Write the logs unbuffered to stdout.

Answer: D

NEW QUESTION 21

An application has initiated an OAuth authorization code grant flow to get access to an API resource on behalf of an end user.

Which two parameters are specified in the HTTP request coming back to the application as the end user grants access? (Choose two.)

- A. access token and a refresh token with respective expiration times to access the API resource
- B. access token and expiration time to access the API resource
- C. redirect URI a panel that shows the list of permissions to grant
- D. code that can be exchanged for an access token
- E. state can be used for correlation and security checks

Answer: AB

NEW QUESTION 22

Which two countermeasures help reduce the risk of playback attacks? (Choose two.)

- A. Store data in a NoSQL database.
- B. Implement message authentication (HMAC).
- C. Enable end-to-end encryption.
- D. Remove stack traces from errors.
- E. Use short-lived access tokens.

Answer: BE

NEW QUESTION 25

Which two statements describe advantages of static code analysis over unit tests? (Choose two.)

- A. It checks for potential tainted data where input is not checked.
- B. It enforces proper coding standards and style.
- C. It performs a quick analysis of whether tests will pass or fail when run.
- D. It checks for race conditions in threaded applications.
- E. It estimates the performance of the code when run.

Answer: BC

NEW QUESTION 26

```
apiVersion: v1
clusters:
- cluster:
  certificate-authority: fake-ca-file
  server: https://1.2.3.4
  name: development
- cluster:
  insecure-skip-tls-verify: true
  server: https://5.6.7.8
  name: scratch
contexts:
- context:
  cluster: development
  namespace: frontend
  user: developer
  name: dev-frontend
- context:
  cluster: development
  namespace: storage
  user: developer
  name: dev-storage
- context:
  cluster: scratch
  namespace: default
  user: experimenter
  name: exp-scratch
current context: ""
kind: Config
preferences: {}
users:
- name: developer
  user:
    client-certificate: fake-cert-file
    client-key: fake-key-file
- name: experimenter
  user:
    password: some-password
    username: exp
```

Refer to the exhibit. A kubeconfig file to manage access to clusters is provided. How many clusters are defined and which of them are accessed using username/password authentication versus certificate?

- A. two clusters; scratch
- B. three clusters; scratch
- C. three clusters; development
- D. two clusters; development

Answer: C

NEW QUESTION 29

```
open_file = open("text_file.txt", "r")
read_file = open_file.read()
print(read_file)
```

Refer to the exhibit. a developer created the code, but it fails to execute. Which code snippet helps to identify the issue?

- A.

```
try:
    open_file = open("text_file.txt", "r")
    read_file = open_file.read()
    print(read_file)
except:
    print("File not there")
```
- B.

```
try:
    print("File not there")
except:
    open_file = open("text_file.txt", "r")
    read_file = open_file.read()
    print(read_file)
```
- C.


```

try:
    open_file = open("text_file.txt", "r")
    read_file = open_file.read()
    print(read_file)
except:
    print("File not there")
catch:
    error(read_file)
D.
    open_file = open("text_file.txt", "r")
    read_file = open_file.read()
try:
    print(read_file)
except:
    print("File not there")

```

Answer: C

NEW QUESTION 33

A heterogeneous network of vendors and device types needs automating for better efficiency and to enable future automated testing. The network consists of switches, routers, firewalls and load balancers from different vendors, however they all support the NETCONF/RESTCONF configuration standards and the YAML models with every feature the business requires. The business is looking for a buy versus build solution because they cannot dedicate engineering resources, and they need configuration diff and rollback functionality from day 1.

Which configuration management for automation tooling is needed for this solution?

- A. Ansible
- B. Ansible and Terraform
- C. NSO
- D. Terraform
- E. Ansible and NSO

Answer: E

NEW QUESTION 34

```

- name: Configure Interfaces
  with_items: "{{interfaces}}"
  netconf_config:
    <<: *host_info
    xml: |
      <config>
        <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
          <interface>
            <name>{{item.interface_type}}{{item.interface_id}}</name>
            <description>{{item.description}}</description>
            <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
            <enabled>true</enabled>
            <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
              <address>
                <ip>{{item.ip_address}}</ip>
                <netmask>{{item.subnet_mask}}</netmask>
              </address>
            </ipv4>
          </interface>
        </interfaces>
      </config>

```

Refer to the exhibit. The Ansible playbook is using the netconf_module to configure an interface using a YANG model. As part of this workflow, which YANG models augment the interface?

- A. ietf-interfaces and ietf-ip
- B. iana-if-type and ietf-interfaces
- C. ietf-ip and openconfig-interface
- D. ietf-ip and iana-if-type

Answer: B

NEW QUESTION 36

```

name: VRFs
ios_vrf:
  vrf: "{{ local_vrf }}"
  state: present
  purge: yes

```

Refer to the exhibit. The YAML represented is using the ios_vrf module. As part of the Ansible playbook workflow, what is the result when this task is run?

- A. VRFs not defined in the host_vars file are removed from the device.
- B. VRFs not defined in the host_vars file are added to the device, and any other VRFs on the device remain.
- C. VRFs defined in the host_vars file are removed from the device.
- D. VRFs are added to the device from the host_vars file, and any other VRFs on the device are removed.

Answer: D

NEW QUESTION 41

```
- name: Configure Interfaces
  with_items: "{{interfaces}}"
  netconf_config:
    <<: *host_info
    xml: |
      <config>
        <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
          <interface>
            <name>{{item.interface_type}}{{item.interface_id}}</name>
            <description>{{item.description}}</description>
            <type xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</type>
            <enabled>true</enabled>
            <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
              <address>
                <ip>{{item.ip_address}}</ip>
                <netmask>{{item.subnet_mask}}</netmask>
              </address>
            </ipv4>
          </interface>
        </interfaces>
      </config>
```

Refer to the exhibit. As part of the Ansible playbook workflow, several new interfaces are being configured using the netconf_config module. The task references the interface variables that are unique per device. In which directory is the YAML file with these variables found?

- A. host_vars directory
- B. home directory
- C. group_vars directory
- D. current working directory

Answer: A

NEW QUESTION 42

A developer needs to configure an environment to orchestrate and configure. Which two tools should be used for each task? (Choose two.)

- A. Puppet for orchestration
- B. Terraform for orchestration
- C. Terraform for configuration
- D. Ansible for orchestration
- E. Ansible for configuration

Answer: BE

NEW QUESTION 44

Application sometimes store configuration as constants in the code, which is a violation of strict separation of configuration from code. Where should application configuration be stored?

- A. environment variables
- B. YAML files
- C. Python libraries
- D. Dockerfiles
- E. INI files

Answer: B

NEW QUESTION 49

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