350-901 Q&As

Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

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QUESTION 1

Which two encryption principles should be applied to secure APIs? (Choose two.)

A. Use temporary files as part of the encryption and decryption process

B. Transmit authorization information by using digitally signed payloads

C. Use encrypted connections to protect data n transit

D. Reuse source code that contain existing UUIDs

E. Embed keys in code to simplify the decryption process

Correct Answer: BC

QUESTION 2

Refer to the exhibit.

```
$ docker service ps cisco_devnet
ID            NAME              SERVICE         IMAGE               LAST
STATE          DESIRED STATE  NODE
d61834d1d0ce  cisco_devnet.1    cisco_devnet    devnet/test:1.0     Running 25
minutes  Running         dc1.cisco.com
a8479669efee  cisco_devnet.2    cisco_devnet    devnet/test:1.0     Running 25
minutes  Running         dc1.cisco.com
0a9abod93c47  cisco_devnet.3    cisco_devnet    devnet/test:1.0     Running 25
minutes  Running         dc2.cisco.com
ef60dadb56bc  cisco_devnet.4    cisco_devnet    devnet/test:1.0     Running 25
minutes  Running         dc3.cisco.com
88dd012de364  cisco_devnet.5    cisco_devnet    devnet/test:1.0     Running 25
minutes  Running         dc4.cisco.com
```

The cisco_devnet Docker swarm service runs across five replicas The development team tags and imports a new image named devnet\\'test 1 1 and requests that the image be upgraded on each container There must be no service outages

during the upgrade process.

Which two design approaches must be used? (Choose two.)

A. Implement rolling upgrades by using the docker service update command.

B. Enable parallel upgrades by using the docker service update command.

C. Ensure that the service is hosted behind a VIP with no session persistence.

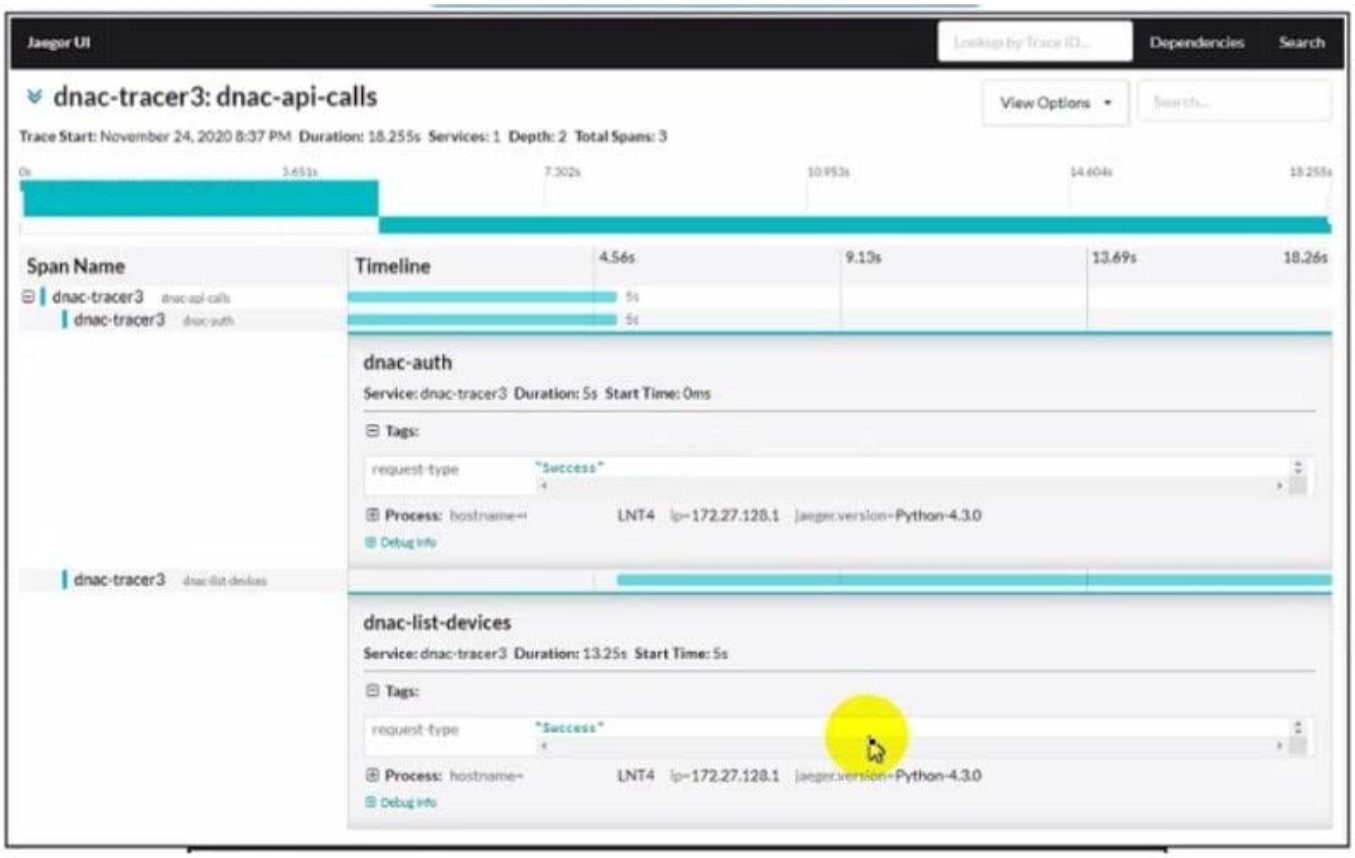
D. Update the restart policy of the containers to restart upon failure.

E. Ensure that the service replicas are set to a minimum of 5.

Correct Answer: AC

QUESTION 3

Refer to the exhibit An application is developed to perform multiple API calls. The calls will be performed on the infrastructure devices Delays in the information transfer occur when the application is executed. What are two reasons for the issue? (Choose two)




```
def init_tracer(service):
    logging.getLogger('').handlers = []
    logging.basicConfig(format='%(message)s', level=logging.DEBUG)
    config = Config(
        config={'sampler': {'type': 'const', 'param': 1,},'logging': True,},
        service_name=service,)
    return config.initialize_tracer()

tracer = init_tracer('dnac-tracer')
base_url = 'https://sandboxdnac.cisco.com/'

with tracer.start_span('dnac-api-calls') as span:
    with tracer.start_span('dnac-auth', child_of=span) as site_span:
        try:
            dnac = DNACenterAPI(username='devnetuser', password='Cisco123!',
                                base_url=base_url, version='1.3.3',
                                verify=False)
            print('auth passed')
            site_span.set_tag('request-type', 'Success')
        except Exception as e:
            print('failed')
            site_span.set_tag('request-type', e)

with tracer.start_span('dnac-list-devices', child_of=span) as site_span:
    try:
        devices = [dnac.devices.get_device_list() for device in devices]
        print(devices)
        site_span.set_tag('request-type', 'Success')
    except Exception as e:
        print('Failed to list devices')
        site_span.set_tag('request-type', e)
```

A. The list devices API call is failing and does not return a result

B. Listing devices lakes longer than usual due to high network latency

C. One of the API calls takes roughly three times as long to complete

D. The list devices API call is inefficient and should be refactored

E. The requests are being rate limited to prevent multiple calls causing the excessive load

Correct Answer: BC

QUESTION 4

```
module: ietf-interfaces
  +--rw interfaces
  |  +--rw interface* [name]
  |  +--rw name                          string
  |  +rw description?                    string
  |  +--rw type                          identityref
  |  +--rw enabled?                      boolean
  |  +--rw link-up-down-trap-enable?     enumeration {if-mib}?
  +--ro   interfaces-state
    +--ro interface* [name]
     +--ro name                 string
     +--ro type                 identityref
     +--ro admin-status         enumeration {if-mib}?
     +--ro oper-status          enumeration
     +--ro last-change?         yang:date-and-time
     +--ro if-index             int32 {if-mib}?
     +--ro phys-address?        yang:phys-address
     +--ro higher-layer-if*     interface-state-ref
     +--ro lower-layer-if*      interface-state-ref
     +--ro speed?               yang:gauge64
     +--ro statistics
                +--ro discontinuity-time     yang:date-and-time
                +--ro in-octets?             yang:counter64
                +--ro in-unicast-pkts?       yang:counter64
                +--ro in-broadcast-pkts?     yang:counter64
                +--ro in-multicast-pkts?     yang:counter64
                +--ro in-discards?           yang:counter32
                +--ro in-errors?             yang:counter32
                +--ro in-unknown-protos?     yang:counter32
                +--ro out-octets?            yang:counter64
                +--ro out-unicast-pkts?      yang:counter64
                +--ro out-broadcast-pkts?    yang:counter64
                +--ro out-multicast-pltas?   yang:counter64
                +--ro out-discards?          yang:counter32
                +--ro out-errors?            yang:counter32
```

```
import requests
url = ("https://ios-xe-mgmt.cisco.com:9443/restconf/data/ietf-interfaces:" +
     "interfaces/interface=GigabitEthernet2")

headers = {
     'Accept': "application/yang-data+json",
     'Authorization': "Basic cm9vdDpEX1ZheSFfMTAm",
     'Content-Type': "application"
}

response = requests.request(rest_operation, url, data=payload,
     headers = headers, verify=False)

print (response.text)
```

Refer to the exhibits. An interface named "GigabitEthernet2" has been configured on a Cisco IOS XE device. Using RESTCONF APIs as defined by the ietf-interfaces@2014-05- 08.yang model, which two combinations of "rest_operation" and "payload" must be added to the Python script to set the "description" to "Configured by RESTCONF"? (Choose two.)

A.

```
rest_operation = "PATCH"

payload = " {\n    \"ietf-interfaces:interface\": {\n
     \"name\": \"GigabitEthernet2\", \n
     \ "description\": \"Configured by RESTCONF\" \n
     }\n}"
```

B.

```
rest_operation = "PUT"

payload = " {\n    \"ietf-interfaces:interface\": {\n
     \"name\": \"GigabitEthernet2\", \n
     \ "description\": \"Configured by RESTCONF\" \n
     }\n}"
```

C.

```
rest_operation = "PUT"

payload = "{\n \"ietf=interfaces:interface\": {\n
     \"name\": \"GigabitEthernet2\",\n
     \"description\": \"Configured by RESTCONF\", \n
     \"type\": \"iana-if-type:ethernetCsmacd\", \n
     \"enabled\" true,\n \"ietf-ip:ipv4\": {\n
          \"address\": [\n{\n\"ip\": \"10.255.255.1\",
          \n"netmask\": \"255.255.255.0\"\n  }\n
     ]\n       }\n       }\n}"
```

D.

```
rest_operation = "POST"

payload = " {\n    \"ietf-interfaces:interface\": {\n
     \"name\": \"GigabitEthernet2\", \n
     \ "description\": \"Configured by RESTCONF\" \n
     }\n}"
```

E.

```
rest_operation = "POST"

payload = "{\n \"ietf=interfaces:interface\": {\n
     \"name\": \"GigabitEthernet2\",\n
     \"description\": \"Configured by RESTCONF\", \n
     \"type\": \"iana-if-type:ethernetCsmacd\", \n
     \"enabled\" true,\n \"ietf-ip:ipv4\": {\n
          \"address\": [\n{\n\"ip\": \"10.255.255.1\",
          \n"netmask\": \"255.255.255.0\"\n  }\n
     ]\n       }\n       }\n}"
```

A. Option A

B. Option B

C. Option C

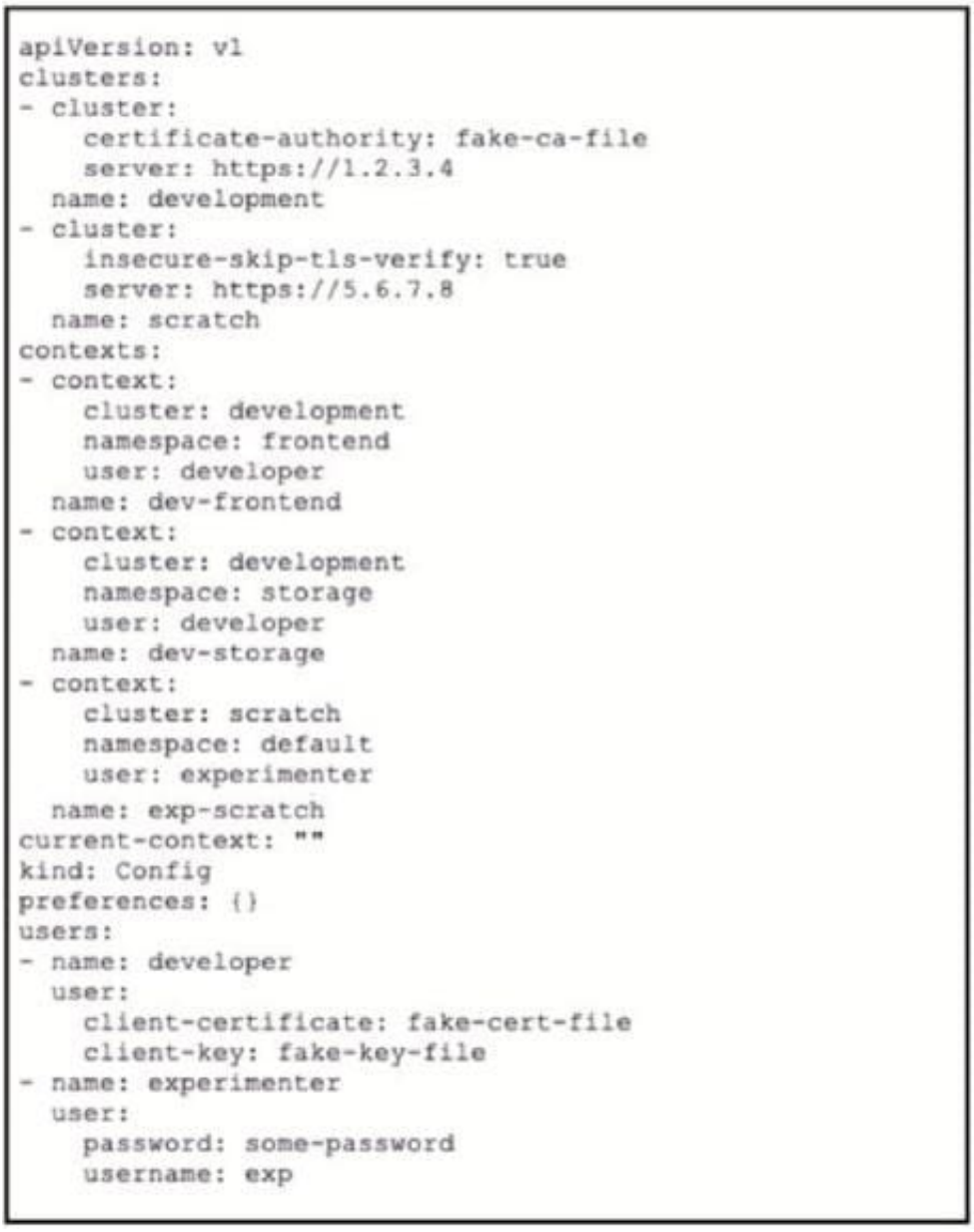
D. Option D

E. Option E

Correct Answer: AB

QUESTION 5

Refer to the exhibit.



```
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
```

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

Correct Answer: A