DUMPS☮ARENA

Developing Applications using Cisco Core Platforms & APIs

Cisco 350-901

Version Demo

Total Demo Questions: 20

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Topic Break Down

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QUESTION NO: 1

Refer to the exhibit.

```
1   import json
2   import requests
3   from requests.exceptions import HTTPError
4
5   url='https://devnet.ap.net/accesspoints/266'
6   try:
7       response = requests.get(url)
8       response.raise_for_status()
9   except HTTPError as http_err:
10      print('HTTP error occurred:'.format(http_err))
11  except Exception as err:
12      print('Other error occurred'.format(err))
13  else:
14      json = json.loads(response.text)
15
```

```
$ python get-userid.py
{u'userId': 1, u'firstName': 'James', u'secondName': u'Bond', u'email':
u'james.bond@cisco.com'}
```

A developer has created a Python script that retrieves information about the deployment of Cisco wireless access points using REST API. Which two code snippets must be added to the blank in the code to print the value of the userid key instead of printing the full JSON response? (Choose two.)

A)

```
print json[0][userId]
```

B)

```
print json['userId']
```

C)

```
print json[1]['userId']
```

D)

```
for key, value in json.items():
    if key == 'userId':
        print('{}'.format(value))
```

E)

```
for key, value in json.dumps(response.text):
    if key in 'userId':
        print value
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: B D

QUESTION NO: 2

What are two benefits of using distributed log collectors? (Choose two.)

A. supports multiple transport protocols such as TCP/UDP

B. improves performance and reduces resource consumption

C. provides flexibility due to a wide range of plugins and accepted log formats

D. enables extension of logs with fields and export to backend systems

E. buffers and resends data when the network is unavailable

ANSWER: B E

QUESTION NO: 3

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: B E

QUESTION NO: 4

In the three-legged OAuth2 authorization workflow, which entity grants access to a protected resource?

A. resource owner

B. client

C. resource server

D. authorization server

ANSWER: D

Explanation:

Reference: https://developer.orange.com/tech_guide/3-legged-oauth/

QUESTION NO: 5

Refer to the exhibit.

API CONSOLE

/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/object/fqdns

005056BB-0B24-0ed3-0000-858993545263

Identifier for FQDN object.

+ query parameter

Content-Type Header | application/json ⬍

Accept Header | application/json ⬍

GET **Success!**

Response Text   Response Info   Request Info

```
"value": "10.156.100.26",
"overridable": false,
"description": "testServer",
"id": "005056BB-0B24-0ed3-0000-858993545263",
"name": "testServer01.foobar.com",
"metadata": {
  "timestamp": 1551986986196,
  "lastUser": {
    "name": "jboga"
  },
  "domain": {
```

Which AP! call does an engineer use to delete the FQDN object?

A. DELETE /api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f

B. DELETE /api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/object/fqdns/005056BB-0B24-0ed3-0000-858993545263

C. DELETE /api/fmc_config/v1/domain?id=e276abec-e0f2-11e3-8169-6d9ed49b625f

D. DELETE /api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/object/fqdns?id=005056BB-0B24-0ed3-0000-858993545263

ANSWER: B

Explanation:

https://www.cisco.com/c/en/us/td/docs/security/firepower/640/api/REST/Firepower_Management_Center_REST_API_Quick_Start_Guide_640/Objects_In_The_REST_API.html#fqdns_DELETE

QUESTION NO: 6

How is client code that consumes gRPC telemetry implemented, assuming that the preferred language is able to be chosen?

A. Parse the OpenAPI spec model

B. Compile the protocol buffers IDL

C. Leverage a Thrift code generator to parse a Thrift IDL

D. Review the Swagger API documentation to build client code

ANSWER: B

QUESTION NO: 7 - (DRAG DROP)

DRAG DROP

Drag and drop the steps from the left into the order on the right to configure and install a container on a Cisco Catalyst 9000 Series Switch.

Select and Place:

Answer Area

cat9k(config)# iox	step 1
cat9k# app-hosting install appid MYAPP package flash:myapp.tar	step 2
cat9k# app-hosting start appid MYAPP	step 3
cat9k# app-hosting activate appid MYAPP	step 4

ANSWER:

Answer Area

cat9k(config)# iox	cat9k# app-hosting start appid MYAPP
cat9k# app-hosting install appid MYAPP package flash:myapp.tar	cat9k# app-hosting activate appid MYAPP
cat9k# app-hosting start appid MYAPP	cat9k(config)# iox
cat9k# app-hosting activate appid MYAPP	cat9k# app-hosting install appid MYAPP package flash:myapp.tar

Explanation:

QUESTION NO: 8

An organization manages a large cloud-deployed application that employs a microservices architecture across multiple data centers. Reports have been received about application slowness. The container orchestration logs show that faults have been raised in a variety of containers that caused them to fail and then spin up brand new instances. Which two actions can improve the design of the application to identify the faults? (Choose two.)

A. Automatically pull out the container that fails the most over a time period.

B. Implement a tagging methodology that follows the application execution from service to service.

C. Add logging on exception and provide immediate notification.

D. Do a write to the datastore every time there is an application failure.

E. Implement an SNMP logging system with alerts in case a network link is slow.

ANSWER: B C

QUESTION NO: 9

On a Cisco Catalyst 9300 Series Switch, the guest shell is being used to create a service within a container.

Which change is needed to allow the service to have external access?

A. Apply ip nat overload on VirtualPortGroup0.

B. Apply ip nat inside on Interface VirtualPortGroup0.

C. Apply ip nat outside on Interface VirtualPortGroup0.

D. Apply ip nat inside on Interface GigabitEthernet1.

ANSWER: B

QUESTION NO: 10

Refer to the exhibit.

Interface Lookback 1 must be created with IP address 10.30.0.1/24 in a Cisco IOS XE device using RESTCONF. The schema that is defined by the exhibit must be used. Which body and URI should be used for this operation?

A)

```
PUT
/restconf/data/Cisco-IOS-XE-native:native/interfaces
{
  "Loopback": [{
    "name": "1",
    "description": "Loopback 1 - description",
    "ip": {
      "address": {
        "primary: { "address": 10.30.0.1",
          "mask": "255.255.255.0" }
      }
    }
  }]
}
```

B)

```
POST
/restconf/data/Cisco-IOS-XE-native:native/interfaces
{
  "Loopback": [{
    "name": "1",
    "description": "Loopback 1 - description",
    "ip": {
      "address": {
        "primary: { "address": 10.30.0.1",
          "mask": "24" }
      }
    }
  }]
}
```

C)

```
POST
/restconf/data/Cisco-IOS-XE-native:native/interface
{
  "Loopback": [{
    "name": "1",
    "description": "Loopback 1 - description",
    "ip": {
      "address": {
        "primary: { "address": 10.30.0.1",
          "mask": "255.255.255.0" }
      }
    }
  }]
}
```

D)

```
PUT
/restconf/data/Cisco-IOS-XE-native:native/interface
{
  "Loopback": [{
    "name": "1",
    "description": "Loopback 1 - description",
    "ip": {
      "address": {
        "primary: { "address": 10.30.0.1",
          "mask": "24" }
      }
    }
  }]
}
```

A. Option A

B. Option B

C. Option C

D. Option D
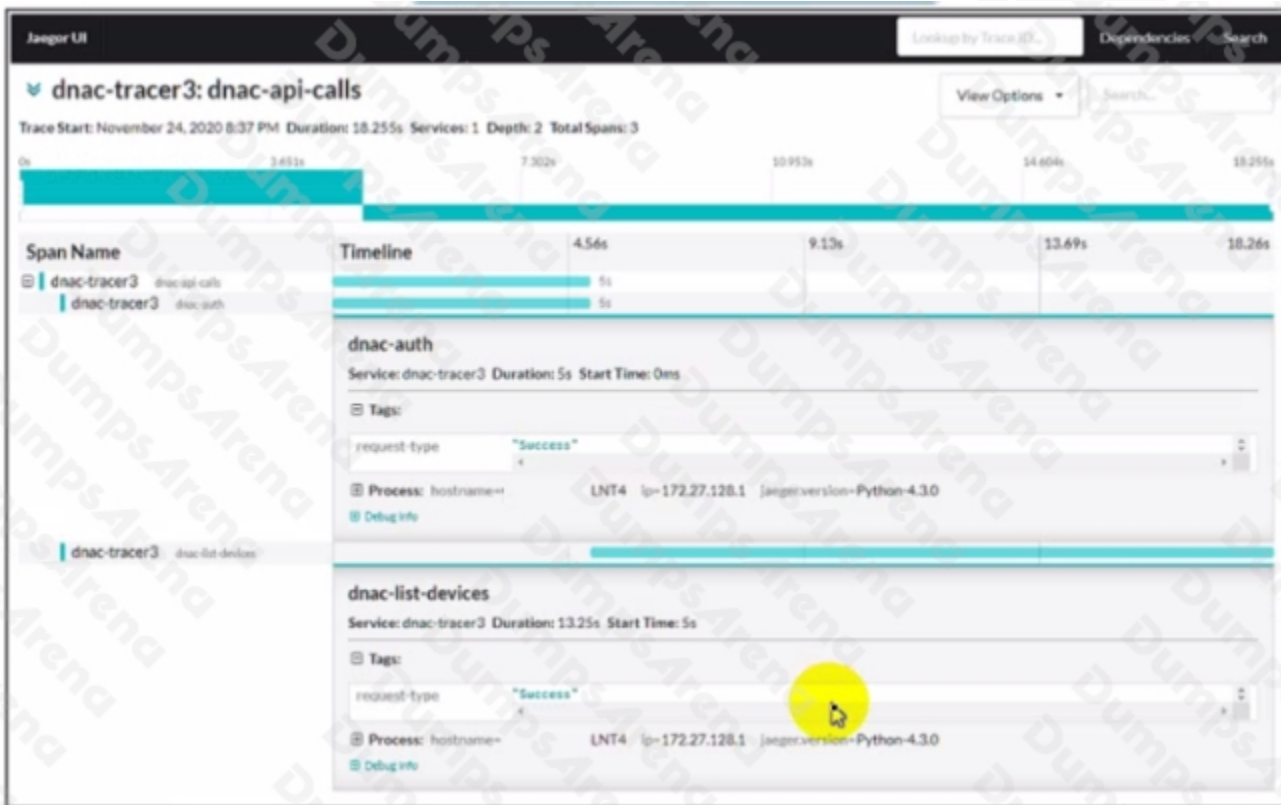
ANSWER: A

QUESTION NO: 11

Which approach is used to protect East-West API traffic?

A. Use encryption between services

B. Install a perimeter firewall

C. Use a dedicated cloud connection service.

D. Implement an API gateway

ANSWER: A

QUESTION NO: 12

Refer to the exhibit

```
1   def init_tracer(service):
2       logging.getLogger('').handlers = []
3       logging.basicConfig(format='%(message)s', level=logging.DEBUG)
4       config = Config(
5           config={'sampler': {'type': 'const', 'param': 1,},'logging': True,},
6           service_name=service,)
7       return config.initialize_tracer()
8
9   tracer = init_tracer('dnac-tracer')
10  base_url = 'https://sandboxdnac.cisco.com/'
11
12  with tracer.start_span('dnac-api-calls') as span:
13      with tracer.start_span('dnac-auth', child_of=span) as site_span:
14          try:
15              dnac = DNACenterAPI(username='devnetuser', password='Cisco123!',
16                                  base_url=base_url, version='1.3.3',
                                    verify=False)
17              print('auth passed')
18              site_span.set_tag('request-type', 'Success')
19          except Exception as e:
20              print('failed')
21              site_span.set_tag('request-type', e)
22
23  with tracer.start_span('dnac-list-devices', child_of=span) as site_span:
24      try:
25          devices = [dnac.devices.get_device_list() for device in devices]
26          print(devices)
27          site_span.set_tag('request-type', 'Success')
28      except Exception as e:
29          print('Failed to list devices')
30          site_span.set_tag('request-type', e)
```

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)

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

ANSWER: B C

QUESTION NO: 13

Refer to the exhibit , The command docker build -tag=friendlyhello . is run to build a docker image from the given Dockerfile,

requirements,txt, and app.py, Then the command docker run -p 4000:80 friendlyhello is executed to run the application. Which URL is entered in the web browser to see the content served by the application?

A. http://localhost:4000

B. http ://localhost:80

C. http ://127.0.0.1:80

D. http:///4000:80

ANSWER: D

QUESTION NO: 14

A container running a Python script is failing when it reaches the integration testing phase of the CI/CD process. The code has been reviewed thoroughly, and the build process works on this container and all other containers pass unit and integration testing.

What should be verified to resolve the issue?

A. that the correct port is exposed in the Dockerfile

B. that the necessary modules and packages are installed on build

C. that the script is running from the right directory

D. that the Python version of the container image is correct

ANSWER: B

QUESTION NO: 15

What are two methods for sending bearer access tokens in resource requests to servers? (Choose two,)

A. in plaintext for user access

B. in the HTTP API schema

C. in the HTTP request entity-body

D. in the "Authorization" request header field

E. in the HTTP request URI

ANSWER: C D

QUESTION NO: 16

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

QUESTION NO: 17 - (DRAG DROP)

A Python script must query the Cisco DNA center API for the number of unique wireless clients that are exhibiting poor health behavior. Drag and drop the code from the bottom onto the box where the code is missing to complete the script Not all options are used.

```
1   import requests as re
2   from base64 import b64encode
3   import json
4
5   host = 'https://sandboxdnac.cisco.com/'
6   auth_ext = 'dna/system/api/v1/auth/token'
7   health_ext = 'dna/intent/api/v1/[          ]-health'
8   user = 'devnetuser'
9   pasw = 'Cisco123!'
10
11  encoded_auth = b64encode(str.encode(user+':'+pasw)).decode("ascii")
12  head = {'Authorization': 'Basic {}'.format(encoded_auth)}
13  body = None
14  auth_head = {'X-Auth-Token': json.loads(
15      re.request('POST', host+auth_ext, headers=head, data=body, verify=False
16          ).text)['Token']}
17  wireless_health_stats = [
18      score['clientUniqueCount'] for score in
19      [item['[          ]'] for item in json.loads(
20          re.request('GET', host + health_ext,
21                  headers=auth_head, data=body, verify=False).text
22          )['response'][0]['[          ]'] if
23      item['scoreCategory']['value'] == '[          ]'][0]
24      if score['scoreCategory']['value'] == 'POOR'
25      ][0]
```

scoreDetail	WIRELESS	
json.loads	'POST'	scoreList

ANSWER:

```
1   import requests as re
2   from base64 import b64encode
3    import json
4
5   host = 'https://sandboxdnac.cisco.com/'
6   auth_ext = 'dna/system/api/v1/auth/token'
7   health_ext = 'dna/intent/api/v1/[          ]-health'
8   user = 'devnetuser'
9   pasw = 'Cisco123!'
10
11  encoded_auth = b64encode(str.encode(user+':'+pasw)).decode("ascii")
12  head = {'Authorization': 'Basic {}'.format(encoded_auth)}
13  body = None
14  auth_head = {'X-Auth-Token': json.loads(
15      re.request('POST', host+auth_ext, headers=head, data=body, verify=False
16              ).text)['Token']}
17  wireless_health_stats = [
18      score['clientUniqueCount'] for score in
19      [item['[ scoreList ]'] for item in json.loads(
20          re.request('GET', host + health_ext,
21                  headers=auth_head, data=body, verify=False).text
22      )['response'][0]['[ scoreDetail ]'] if
23      item['scoreCategory']['value'] == '[ WIRELESS ]'][0]
24      if score['scoreCategory']['value'] == 'POOR'
25      ][0]
```

scoreDetail	WIRELESS	
json.loads	'POST'	scoreList

Explanation:

```
1   import requests as re
2   from base64 import b64encode
3    import json
4
5   host = 'https://sandboxdnac.cisco.com/'
6   auth_ext = 'dna/system/api/v1/auth/token'
7   health_ext = 'dna/intent/api/v1/[ client ]-health'
8   user = 'devnetuser'
9   pasw = 'Cisco123!'
10
11  encoded_auth = b64encode(str.encode(user+':'+pasw)).decode("ascii")
12  head = {'Authorization': 'Basic {}'.format(encoded_auth)}
13  body = None
14  auth_head = {'X-Auth-Token': json.loads(
15      re.request('POST', host+auth_ext, headers=head, data=body, verify=False
16              ).text)['Token']}
17  wireless_health_stats = [
18      score['clientUniqueCount'] for score in
19      [item['[ scoreList ]'] for item in json.loads(
20          re.request('GET', host + health_ext,
21                  headers=auth_head, data=body, verify=False).text
22      )['response'][0]['[ scoreDetail ]'] if
23      item['scoreCategory']['value'] == '[ WIRELESS ]'][0]
24      if score['scoreCategory']['value'] == 'POOR'
25      ][0]
```

json.loads	'POST'

Which two gRPC modes of model-driven telemetry are supported on Cisco IOS XE Software? (Choose two.)

A. dial-in

B. dial-out

C. call-in

D. call-out

E. passive

ANSWER: A B

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1612/b_1612_programmability_cg/model_driven_telemetry.html#id_86392

QUESTION NO: 19

A local Docker container with a Container ID of 391441516e7a is running a Python application. Which

command is used to connect to a bash shell in the running container?

A.
```
docker attach <Container ID>
```

B.
```
docker exec -it <Container ID> /bin/bash
```

C.
```
docker run -a stdin -a stdout <Container ID> /bin/bash
```

D.
```
docker container attach <Container ID>
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: A

QUESTION NO: 20

Which two statements are considered best practices according to the 12-factor app methodology for application design? (Choose two.)

A. Application code writes its event stream to stdout.

B. Application log streams are archived in multiple replicated databases.

C. Application log streams are sent to log indexing and analysis systems.

D. Application code writes its event stream to specific log files.

E. Log files are aggregated into a single file on individual nodes.

ANSWER: A D