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Vendor:Cisco

Exam Code:300-550

Exam Name:Designing and Implementing Cisco
Network Programmability

Version:Demo

QUESTION 1

Which two statements about OpenFlow are true? (Choose two.)

- A. The OpenFlow flow table contains header fields, counters, and actions
- B. OpenFlow automatically determines network forwarding rules.
- C. OpenFlow interfaces with the management plane
- D. OpenFlow is a southbound protocol
- E. OpenFlow is an agentless technology, like Ansible
- F. OpenFlow is a northbound protocol

Correct Answer: AD

Reference:

For D, <https://learninglabs.cisco.com/lab/restconf-101/step/3>

QUESTION 2

What is the role of the NSO ConfD engine for network applications that are deployed in multivendor environments?

- A. ConfD provides a repository for configurations that are used in automated provisioning of devices after they are powered on.
- B. ConfD automatically generates network configurations based on network service definitions.
- C. ConfD maintains a database that represents the operational state of a network and provides YANG-based management interfaces for use by external systems.
- D. ConfD provides a library of common configuration tasks that can be quickly adapted for use on a variety of multivendor devices.

Correct Answer: C

QUESTION 3

Which two operations are defined in the NETCONF base protocol? (Choose two.)

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

E.

Correct Answer: BC

Reference: <https://en.wikipedia.org/wiki/NETCONF>

QUESTION 4

| Active Internet connections (including servers) | | | | | |
|---|--------|--------|----------------|-----------------|-------------|
| Proto | Recv-Q | Send-Q | Local Address | Foreign Address | (state) |
| tcp4 | 0 | 0 | 10.1.1.2.61044 | 192.168.1.2.443 | ESTABLISHED |
| tcp6 | 0 | 0 | :::1.22 | :::1.60571 | ESTABLISHED |
| tcp4 | 0 | 0 | 127.0.0.1.8888 | *.* | LISTEN |
| tcp46 | 0 | 0 | *.8081 | *.* | LISTEN |
| tcp4 | 0 | 0 | *.22 | *.* | LISTEN |
| tcp6 | 0 | 0 | *.22 | *.* | LISTEN |

Refer to the exhibit. Which Linux command provides output that is similar to the output in the exhibit?

- A. cat/etc/hosts
- B. tcpdump -a
- C. ifconfig -av
- D. netstat -an

Correct Answer: D

QUESTION 5

How are authentication credentials sent in a Cisco APIC REST API authorization request?

- A. by using OAuth
- B. in a token in the header
- C. by using Basic Auth
- D. in JSON in the payload

Correct Answer: D

Authentication to the REST API for username/password-based authentication uses a special subset of request URIs, including aaaLogin, aaaLogout and aaaRefresh as the Dn target of a POST operation. Their payloads contain a simple XML or JSON payload containing the MO representation of an aaaUser object with attributes name and pwd defining the username and password, for example: . The response to the POSTs will contain an authentication token as both a Set-Cookie header as well as an attribute to the aaaLogin object in the response named token, for which the XPath is /imdata/aaaLogin/@token if encoded as XML. Subsequent operations on the REST API can use this token value as a Cookie named "APIC-cookie" to have future requests authenticated.

Reference: <http://aci-troubleshooting-book.readthedocs.io/en/latest/rest.html>

QUESTION 6

Which two statements about the ASA REST API are true? (Choose two.)

- A. Its sandbox provides a place to try out API calls and read documentation.
- B. Its requests are accepted only over HTTP.
- C. It blocks access to other management protocols when in use.
- D. It is included in the base ASA software image.
- E. Its requests are accepted only over HTTPS.

Correct Answer: AE

Reference: <https://www.cisco.com/c/en/us/td/docs/security/asa/api/qsg-asa-api.html>

QUESTION 7

What is the top-level object for the MIT in ACI?

- A. home
- B. root
- C. uni
- D. top

Correct Answer: B

Reference:

<http://www.cisco.com/c/en/us/products/collateral/cloud-systems-management/aci-fabric-controller/white-paper-c11-729999.html> (See the Figure 2).

QUESTION 8

Refer to the exhibit. To make this code work properly, which line of code should you insert at the blank line?

```
import requests
import pprint
pp = pprint.PrettyPrinter(indent=4)
requests.packages.urllib3.disable_warnings() # Disable warnings

response_json = None
payload = None
aTicket = <TICKET>
header = {"X-Auth-Token": aTicket, "content-type":
"application/json"}
url = "https://sandboxapi.cisco.com:9443/api/v1/user"

-----

print ('Status Code', r.status_code)
response_json = r.json()
pp.pprint (response_json)
```

- A. r = requests.get(url, headers=header, verify=False)
- B. r = requests.post(url, data=payload, headers:header, verify=False)
- C. r = requests.post(url, data=payload, headers=header, verify=False)
- D. r = requests(method="POST", url, data=payload, headers=header, verify=False)

Correct Answer: C

QUESTION 9

Which service does a VIRL host use to validate a license?

- A. Puppet
- B. Ansible
- C. Chef
- D. SaltStack

Correct Answer: D

Step 9: Activate VIRL Don't be alarmed.

Until you successfully connect to Cisco's SaltStack infrastructure and validate your VIRL license you can expect to encounter a number of 'Failed to...' error messages. Unless these occur after Step 22 they can safely be ignored.

Reference <http://virl-dev-innovate.cisco.com/vs.client.php>

QUESTION 10

Which two communication protocols does Cisco IOS XR support? (Choose two.)

- A. XR-API
- B. XML
- C. NETCONF
- D. NX-API
- E. gRPC

Correct Answer: CE

Reference: https://www.cisco.com/c/en/us/td/docs/iosxr/crs/datamodels/b-programmability-cg-crs-61x/b-programmability-cg-crs-61x_chapter_011.html

QUESTION 11

The Cisco APIC REST API supports which two methods? (Choose two.)

- A. POST
- B. PATCH
- C. PUT
- D. OPTIONS
- E. GET
- F. RESET

Correct Answer: AE

The API supports HTTP POST, GET, and DELETE request methods

Reference https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest_cfg/2_1_x/b_Cisco_APIC_REST_API_Configuration_Guide/b_Cisco_APIC_REST_API_Configuration_Guide_chapter_01.html#concept_21284AACF779429A8E6EEED11D143716

QUESTION 12

Which network is used by default for cluster sync between Cisco APICs?

- A. out of band management network
- B. VXLAN overlay network
- C. in-band management network
- D. infra-VTEP network

Correct Answer: C

Reference: https://www.google.com/url?sa=t&drct=j&dq=and&src=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiPo8iJvajZAhUqCMAKHb8AAv8QFggnMAA&url=https%3A%2F%2Fwww.cisco.com%2Fen%2Fus%2Fdocs%2Fswitches%2Fdatacenter%2Faci%2Fapic%2Fsw%2Fkb%2Fb_KB_Cluster_Management.html&usq=AOvVaw2m251qmJUOtw2ISCmnNmQx

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