300-550^{Q&As}

Designing and Implementing Cisco Network Programmability

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QUESTION 1

Which two statements about the NX-API are true? (Chose two.)

A. NX-API supports XML-RPC

B. NX-API is enabled by default

C. NX-API supports JSON-RPC

D. The nxapi_auth cookie expires in 30 minutes.

E. NX-API maps to NX-OS NETCONF.

Correct Answer: AC

NX-API is an enhancement to the Cisco Nexus 9000 Series CLI system, which supports XML output. NX-API also supports JSON output format for specific commands.

Reference: http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus7000/sw/programmability/guide/b_Cisco_Nexus_7000_Series_NX-OS_Programmability_Guide/b_Cisco_Nexus_7000_Series_NXOS_Programmability_Guide_chapter_0101.html

QUESTION 2

Which two initial actions should you take when exploring automation for ACI? (Choose two.)

A. Develop an open-source package or SDK

B. Look for an open-source package or SDK

C. Write scripts that leverage the Python standard library

D. Use the API inspector and test API calls.

E. Use the ncclient command to explore the NETCONF capabilities of the Cisco APIC.

Correct Answer: AD

QUESTION 3

Drag and drop the technology on the left to its appropriate use case on the right.

Select and Place:

NETCONF		standards-based protocol that is used to distribute policies to programmable network elements
RESTCONF		used to distribute the traffic engineering database
OpenFlow		used to send RPCs to retrieve operational data via SSH
OpFlex		used to program the data plane of network devices
PCEP		uses HTTP verbs for getting and setting configuration data
BGP-LS		uses TLVs to pass messages between client and server

Correct Answer:

	OpenFlow
	OpFlex
	RESTCONF
	BGP-LS
	PCEP
	NETCONF

QUESTION 4

Refer to the exhibit.

```
def mac_to_subnet (mac):
    for subnet in subnets:
        part = subnet[:9] [-1]
        if part in mac:
            return subnet

mac_addresses = ["1111:2222:3333", "4444:5555:6666", "7777:8888:9999"]
subnets = ["192.168.1.0/24",
           "192.168.2.0/24",
           "192.168.3.0/24",
           "192.168.4.0/24",
           "192.168.5.0/24",
           "192.168.6.0/24",
           "192.168.7.0/24",
           "192.168.8.0/24",
           "192.168.9.0/24"]

results = []
for i, mac_address in enumerate(mac_addresses):
    key = mac_address.split(':') [i]    #  1111, 5555, 9999
    results.append(mac_to_subnet(key))

print(results)
```

What is the output from this Python3 script?

A. [\\'192.168.1.0/24\\', \\'192.168.2.0/24\\', \\'192.168.3.0/24\\']

B. [\\'192.168.1.0/24\\', \\'192.168.5.0/24\\', \\'192.168.9.0/24\\']

C. [\\'192.168.4.0/24\\', \\'192.168.5.0/24\\', \\'192.168.6.0/24\\']

D. [\\'192.168.1.0/24\\', \\'192.168.7.0/24\\', \\'192.168.9.0/24\\']

Correct Answer: B

QUESTION 5

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

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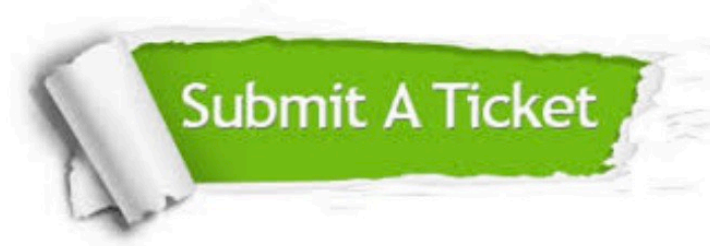Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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