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**Automating and Programming Cisco Service
Provider Solutions (300-535 SPAUTO)**

Cisco 300-535

Version Demo

Total Demo Questions: 10

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Topic Break Down

Topic	No. of Questions
Topic 1, 1.0 Network Programmability Foundation	6
Topic 2, 2.0 Automation APIs and Protocols	18
Topic 3, 3.0 Network Device Programmability	18
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Total	60

QUESTION NO: 1

An engineer needs to configure network devices in an automated way. Which two ways are used to create structured data using YANG to provide REST-like APIs to enable programmability access? (Choose two.)

- A. YAML
- B. JSON
- C. GPB
- D. JSON-RPC
- E. XML

ANSWER: B E

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.pdf

QUESTION NO: 2

What are two fundamental design constraints of a RESTful API? (Choose two.)

- A. It includes a series of interactions to the API that are dependent on one another.
- B. It is dependent on the communication protocol being HTTP.
- C. It exposes procedures or functions for a client call.
- D. Each interaction is independent from all others on the server side.
- E. It is a client-server communication model where the client and the server are independent of one another.

ANSWER: D E

QUESTION NO: 3

```
def configure_ip_address(interface, ip, length):
    url = BASE_URL + "/data/ietf-interfaces:interfaces/interface={i}".format(
        i = interface
    )
    data = OrderedDict(
        [
            (
                "ietf-interfaces:interface",
                OrderedDict(
                    [
                        ("name", interface),
                        ("type", "iana-if-type:ethernetCsmacd"),
                        (
                            "ietf-ip:ipv6",
                            OrderedDict(
                                [
                                    (
                                        "address",
                                        [OrderedDict([("ip", ip), ("prefix-length", length)])],
                                    )
                                ]
                            )
                        )
                    ]
                )
            ),
        ]
    )

    response = requests.put(
        url, auth=(USERNAME, PASSWORD), headers=HEADERS, verify=False, json=data
    )
    print(response.status_code)

configure_ip_address("GigabitEthernet2", "2001:db8:636c:6179:2063:7572:7469:7300", "64")
```

Refer to the exhibit. What is the effect of the script on the device?

- A. All interfaces except GigabitEthernet2 are reset to their default configurations.
- B. It replaces the entire configuration for GigabitEthernet2 on the device using RESTCONF.
- C. It merges the new configuration with the existing configuration on the device using RESTCONF.
- D. It compares the configuration to the device. If it matches, the device sends back an HTTP 204 status code.

ANSWER: C

QUESTION NO: 4

Which data format should be used to serialize structured data in the most compact way?

- A. protobufs
- B. YAML

C. JSON

D. XML

ANSWER: B

Explanation:

Reference: <https://www.sitepoint.com/data-serialization-comparison-json-yaml-bson-messagepack/>

QUESTION NO: 5

When using Cisco YDK, which syntax configures the BGP ASN using OpenConfig BGP?

A. `bgp.config.as_ = 65000`

B. `bgp.global_.config.as = 65000`

C. `bgp.global.config.as_ = 65000`

D. `bgp.global_.config.as_ = 65000`

ANSWER: D

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKNMS-2032.pdf>

QUESTION NO: 6

What are two advantages of using Python virtual environments? (Choose two.)

A. They allow for multiple Python projects to use different versions of the same dependency without conflict.

B. They allow multiple Python applications to share virtual memory between subprocesses.

C. They allow for isolated environments where each can use a different version of Python.

D. They allow for all Python projects to utilize the same set of shared dependencies.

E. They allow for multiple virtual machines to share a single Python environment.

ANSWER: A C

QUESTION NO: 7 - (DRAG DROP)

DRAG DROP

Drag and drop the steps from the left into the correct order on the right to deploy an already created service into NSO. Not all options are used.

Select and Place:

Log in to NSO CLI.	
Verify that the service has been properly loaded with "show packages package oper-status" command.	
Perform a "services reload" command.	
Move the service into \$NCS_DIR/packages directory.	
Perform a "packages reload" command.	
Move the service into \$NCS_PACKAGES directory.	
Run "make clean all" inside the service "src" directory.	
Verify that the service has been properly loaded with "show services service service-version" command.	

ANSWER:

Log in to NSO CLI.	Move the service into \$NCS_PACKAGES directory.
Verify that the service has been properly loaded with "show packages package oper-status" command.	Log in to NSO CLI.
Perform a "services reload" command.	Run "make clean all" inside the service "src" directory.
Move the service into \$NCS_DIR/packages directory.	Perform a "packages reload" command.
Perform a "packages reload" command.	Verify that the service has been properly loaded with "show packages package oper-status" command.
Move the service into \$NCS_PACKAGES directory.	
Run "make clean all" inside the service "src" directory.	
Verify that the service has been properly loaded with "show services service service-version" command.	

Explanation:

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/LABSPG-2442.pdf>

QUESTION NO: 8

```
def main():
    """
    Main method that prints netconf capabilities of device.
    """
    device = {"ip": "10.2.101.11", "port": "830", "platform":
"csr",}
    with manager.connect(host=device['ip'],
port=device['port'], username='admin',
                        password= 'cisco.123',
hostkey_verify=False,
                        device_params=('name':
device['platform']},
                        look_for_keys=False,
allow_agent=False) as m:
        rpc = ' ' '
                <config>
                <native
xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XE-native">
                <router>
                <ospf
xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XE-ospf">
                <id>100</id>
                <router-id>1.1.1.1</router-id>
                <network>
                <ip>10.1.1.0</ip>
                <mask>0.0.0.3</mask>
                <area>0</area>
                </network>
                </ospf>
                </router>
                </native>
                </config>
                . . .
        reply = m.edit_config(rpc, target= 'running')
        print(reply)
if __name__ == '__main__':
    main()
```

Refer to the exhibit. The ncclient Python script is captured from the ncclient import manager. Which configuration on the Cisco IOS XE device is the script used to enable?

- A. router ospf 100 router-id 1.1.1.1
network 10.1.1.0 0.0.0.3 area 0
- B. router ospf 100 network 10.1.1.0 0.0.0.3 area 0
- C. router ospf 100 router-id 10.1.1.0 network 1.1.1.1 0.0.0.3 area 0

D. router ospf 100 router-id 1.1.1.1

ANSWER: A

QUESTION NO: 9

What is a benefit of Ansible for automating IOS XE or IOS XR platforms?

- A. Playbooks can be written in XML format.
- B. It has agent support
- C. It supports asynchronous orchestration.
- D. It offers native orchestration support for Cisco platforms.

ANSWER: D

QUESTION NO: 10

Which two Python libraries are used to write a script to retrieve network device information using RESTCONF? (Choose two.)

- A. PySNMP
- B. requests
- C. ncclient
- D. YANG
- E. json

ANSWER: B E