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## Automating and Programming Cisco Service Provider Solutions (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
Topic 4, Automation and Orchestration Platforms	20
Total	62



## QUESTION NO: 1

```
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: 2

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**

### QUESTION NO: 3

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](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: 4

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: 5**

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: 6 - (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: 7**

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: 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 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: 10

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>