

300-535^{Q&As}

Automating and Programming Cisco Service Provider Solutions
(SPAUTO)

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QUESTION 1

What are two benefits of using Cisco NSO? (Choose two.)

- A. It abstracts the device adapter and complex device logic from the service logic.
- B. It uses load balancing services for better traffic distribution.
- C. It easily integrates into northbound systems and APIs.
- D. It can replace the CI/CD pipeline tools.
- E. It automatically discovers all deployed services.

Correct Answer: AC

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKDCN-2498.pdf>

QUESTION 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

Correct Answer: BE

QUESTION 3

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.

Correct Answer: AC

QUESTION 4

```
#!/usr/bin/env python

from ydk.models.openconfig.openconfig_interfaces import Interfaces
from ydk.errors import YError

def read_interfaces(crud_service, provider):

    intf_f = Interfaces()

    try:
        interfaces = crud_service.read(provider, intf_f)
        for interface in interfaces.interface:
            print(interface.name)
    except YError:
        print('An error occurred.')
```

Refer to the exhibit. When YDK is used to interact with Cisco routers, what is the purpose of passing `intf_f` into the `crud_service.read()` method?

- A. The `Interfaces()` class acts as a NETCONF filter, which limits the data returned to that of the `openconfig:interfaces` YANG model.
- B. It provides the data types of the `openconfig:interfaces` model to the router for dynamic configuration of the interfaces.
- C. It locks the interfaces from modification by other active NETCONF sessions.
- D. It passes default values into the `crud_service`, which reconfigures all interfaces to their default configurations.

Correct Answer: D

QUESTION 5

```
module: Cisco-IOS-XR-isis-cfg
  +--rw isis
    +--rw instances
      +--rw instance* [instance-name]
        +--rw nets
          +--rw net* [net-name]
            +--rw net-name      xr:Osi-net
```

Refer to the exhibit. Which XML output is a valid instantiation of the YANG model?

A.

```
<isis>
  <instances>
    <instance>
      <instance-name>1</instance-name>
      <nets>
        <net>
          <net-name>49.0010.0100.1001.00</net-name>
        </net>
      <nets>
    </instance>
  </instances>
</isis>
```

B.

```
<isis>
  <instances>
    <instance>1</instance>
    <nets>
      <net>xr:Osi-net 49.0100.1001.00</net>
    <nets>
  </instances>
</isis>
```

C.

```
<isis>
  <instances>
    <instance>
      <instance-name>
      <nets>
        <net>
          <net-name>
            1, 49.0010.0100.1001.00
          </net-name>
        </net>
      </nets>
    </instance-name>
  </instance>
</instances>
</isis>
```

D.

```
<isis>
  <instances>
    <instance>
      <instance-name>1</instance-name>
      <nets>
        <net>
          <net-name>[49.0010.0100.1001.00]</net-name>
        </net>
      </nets>
    </instance>
  </instances>
</isis>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 6

```
<operation> /<api-entry>/<path>?<query>#<fragment>
```

Refer to the exhibit. Which two URI entries are optional and functional in this RESTCONF URI structure? (Choose two.)

A. fragment

B. query

C. operation

D. api-entry

E. path

Correct Answer: BE

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2016/pdf/DEVNET-1081.pdf> page 25

QUESTION 7

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

A. protobufs

B. YAML

C. JSON

D. XML

Correct Answer: B

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

QUESTION 8

The Netmiko BaseConnection class contains a method called "send_config_set()". Which two actions does this method perform on the device? (Choose two.)

- A. It takes a filename parameter that executes commands contained in that file on the device.
- B. It requires the user to explicitly send configure terminal and exit commands to the device to enter and exit configuration mode.
- C. It automatically enters and exits configuration mode on the device.
- D. It takes a Python iterable, such as a list of commands, and executes them in order on the device.
- E. It saves the running configuration to the startup configuration after executing the configuration commands on the device.

Correct Answer: CD

QUESTION 9

An engineer is deploying a Python script to manage network devices through SSH. Which library based on Paramiko is used?

- A. sshmiko
- B. paramiko.agent
- C. libssh2
- D. netmiko

Correct Answer: D

Reference: <https://pynet.twb-tech.com/blog/automation/netmiko.html>

QUESTION 10

```
"request": {
  "url": "http://{{server}}:{{port}}/restconf/data/l3vpn:vpn/l3vpn=test",
  "method": "POST",
<snip>
```

Refer to the exhibit. An automation engineer has created a RESTCONF POST to configure network devices. Which two tasks are accomplished when the code is executed? (Choose two.)

- A. If the specified configuration is already in the running configuration, the command is replaced by this request.
- B. If the specified configuration is already in the running configuration, the command is not replaced by this request.
- C. If the specified configuration is already executed in the running configuration, the command is merged with this request.

D. If the specified configuration is already in the running configuration, the command updates this request.

E. If the specified configuration is not on the device, the POST request creates it.

Correct Answer: DE

QUESTION 11

Which is a format used for the YANG JSON content-type header?

A. application/vnd yang.data+json

B. application/vnd.yang.data+json

C. application/yang.data.json

D. application/vnd.yang.data json

Correct Answer: B

QUESTION 12

What is an interior YANG data node that exists in at most one instance in the data tree and has no value?

A. listing node

B. tree node

C. container node

D. leaf node

Correct Answer: C

QUESTION 13

```
module abc_service {
  namespace "http://com/abc/service";
  prefix abc_service;

  import ietf-inet-types { prefix inet; }
  import tailf-ncs { prefix ncs; }
  imports tailf-common { prefix tailf; }
  import tailf-ned-cisco-ios { prefix ios; }

  augment "/ncs:services" {

    list abc_service {
      key "name";
      ncs:servicepoint "abc_service";

      leaf name {
        mandatory true;
        type string;
      }
      list link {
        key "router_name";

        leaf router_name {
          mandatory true;
          type leafref {
            path "/ncs:devices/ncs:device/ncs:name";
          }
        }
      }
    }
  }
}
```

Refer to the exhibit. Based on the YANG presented, what is the correct xpath to retrieve the router named "ios-device" under the "CustomerA" service name?

- A. /ncs:abc_service/CustomerA/ios-device
- B. /abc_service/CustomerA/"ios-device"
- C. /ncs:service/abc_service/"CustomerA"/ios-device
- D. /ncs:services/abc_service/CustomerA/ios-device

Correct Answer: D

QUESTION 14

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.

Correct Answer: DE

QUESTION 15

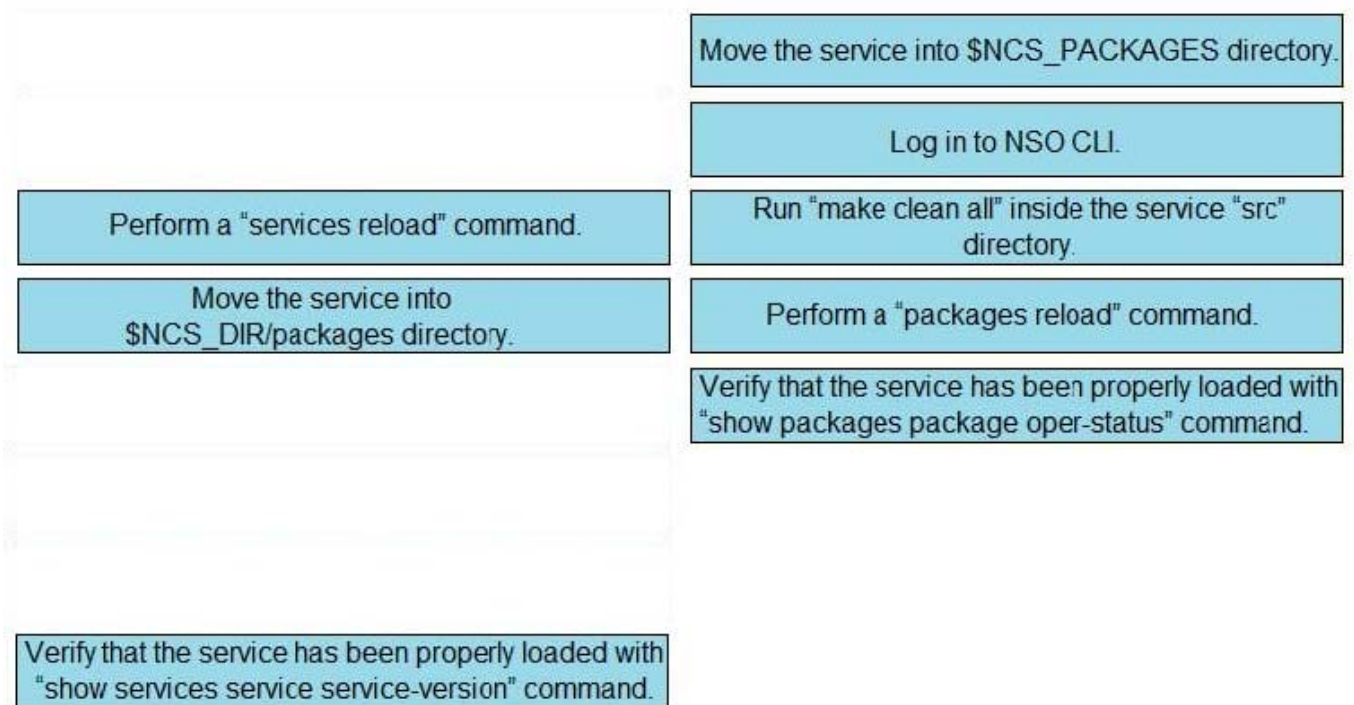
DRAG DROP

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.	

Correct Answer:



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

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