

Exam Questions 300-535

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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NEW QUESTION 1

Which two use cases are valid for Cisco WAN Automation Engine? (Choose two.)

- A. deployment of SR policies
- B. integration with Cisco XTC
- C. what-if analysis
- D. device manager
- E. network controller

Answer: AB

NEW QUESTION 2

What are two characteristics of the NFV architecture approach? (Choose two.)

- A. It decouples the network functions from proprietary hardware appliances.
- B. It provides 70% more efficiency of network infrastructure.
- C. It is specially designed for Internet providers.
- D. It is specially designed for telecommunications service providers.
- E. It typically includes a hypervisor.

Answer: AE

NEW QUESTION 3

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.

Answer: CD

NEW QUESTION 4

How does using the Python with statement in conjunction with ncclient manager improve an existing NETCONF automation script?

- A. It allows the NETCONF connection to the device to be gracefully closed without having to explicitly code this action.
- B. It manages the running configuration of the device by comparing it to the new configuration applied using NETCONF.
- C. The with statement tries to connect to the device using TCP port 830 first but also tries to connect via TCP port 22.
- D. Use of the with statement catches any exceptions when trying to connect to a device using NETCONF.

Answer: D

NEW QUESTION 5

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

import json
import requests

NE = {
    "device":{
        "name": "ios-device",
        "address": "192.168.0.1",
        "port":22,
        "state":{
            "admin-state": "unlocked"
        }
    },
    "authgroup": "default",
    "device-type":{
        "cli":{
            "ned-id": "tailf-ned-cisco-ios-id:cisco-ios"
        }
    }
}

def main():
    baseUri = "http://localhost:8080/restconf/data"
    auth = ('john', 'suoer123')
    headers = {'Content-Type': 'application/yang-data+json'}
    response = requests.put(baseUri + '/devices/device=ios-device', auth=auth, headers=headers,
        data=json.dumps(NE))
    print(response)

    baseUriOperation = "http://localhost:8080/restconf/operations"

    response = requests.post(baseUriOperation + "/devices/device=ios3/sync-from", auth=auth, headers=headers)
    print(response)

if __name__ == "__main__":
    main()
```

Refer to the exhibit. A Python script is created to add a new device on Cisco NSO using RESTCONF API. The device is added successfully, but a 405 Method Not Allowed RESTCONF error code has received as the line to fetch SSH keys runs. Which code is missing to complete the script?

- A. response = requests.put(baseUriOperation + "/devices/device=ios-device/ssh/fetch-host-keys", auth=auth, headers=headers)
- B. response = requests.post(baseUriOperation + "/devices/device=ios-device/ssh/fetch-host-keys", auth=auth, headers=headers)

- C. response = requests.post(baseUrlOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth, headers=headers)
- D. response = requests.put(baseUrlOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth, headers=headers)

Answer: C

NEW QUESTION 6

Which two data formats are human readable? (Choose two.)

- A. YAML
- B. Apache Arrow
- C. gRPC
- D. binary
- E. JSON

Answer: AE

NEW QUESTION 7

```

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

Answer: D

NEW QUESTION 8

You create a simple service package skeleton in Cisco NSO using ncs-make-package --service-skeleton template vlan. Which two steps must be performed to complete the service? (Choose two.)

- A. Create the VLAN service template in XML.
- B. Modify the VLAN FastMap algorithm.
- C. Start the VLAN Python VM.
- D. Create the VLAN service model in YANG.
- E. Compile the VLAN NED.

Answer: DE

NEW QUESTION 9

Which Git command is needed to stage the file network-deploy.py to then commit the changes to the revision history?

- A. git init network-deploy.py
- B. git add network-deploy.py
- C. git merge network-deploy.py
- D. git commit network-deploy.py

Answer: B

NEW QUESTION 10

```
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']),
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

NEW QUESTION 10

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: AC

NEW QUESTION 12

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