

# Cisco

## Exam Questions 300-535

Automating and Programming Cisco Service Provider Solutions (SPAUTO)



#### NEW QUESTION 1

What tool is used to perform a “what if” failure analysis in a service provider network that is running Segment Routing?

- A. Cisco WAN Automation Engine
- B. Cisco Evolved Programmable Network Manager
- C. Cisco Network Services Orchestrator
- D. Cisco Segment Routing Path Computation Element

**Answer: A**

#### NEW 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

**Answer: BE**

#### NEW QUESTION 3

An automation engineer is trying to configure a destination group to use dial-out telemetry with gRPC on a Cisco IOS XR platform. The template created is failing to apply. Which parameters must be configured?

- A. source IP address, source port, encoding, and sampling interval
- B. source IP address, source port, encoding, and protocol
- C. destination IP address, destination port, encoding, and sensor path
- D. destination IP address, destination port, encoding, and protocol

**Answer: D**

#### NEW QUESTION 4

```
- name: configure global bgp as 65000
  iosxr_bgp:
    bgp_as: 65000
    router_id: 1.1.1.1
    neighbors:
      - neighbor: 182.168.10.1
        remote_as: 500
        description: PEER_1
      - neighbor: 192.168.20.1
        remote_as: 500
        update_source: GigabitEthernet 0/0/0/0
  address_family:
    - name: ipv4
      cast: unicast
      networks:
        - network: 192.168.2.0/23
        - network: 10.0.0.0/8
      redistribute:
        - protocol: ospf
          id: 400
          metric: 110
```

Refer to the exhibit. What is the result of the Ansible task?

- A. It configures a Cisco IOS XR router with BGP AS65000 with two neighbors and redistributes OSPF into BGP.
- B. It validates the BGP configuration on a Cisco IOS XR router, but it is a read-only module and cannot modify the configuration on the router.
- C. It validates the BGP configuration on a Cisco IOS XE router, but it is a check mode-only network module and cannot modify the configuration on the router.
- D. It configures a Cisco IOS router with BGP on AS500 and redistributes OSPF into BGP.

**Answer: A**

#### NEW QUESTION 5

Which schema allows device configuration elements to be enclosed within a remote procedure call message when NETCONF is implemented?

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

**Answer:** B

#### NEW QUESTION 6

What is a key feature of YANG?

- A. use identification
- B. error prediction
- C. JAVA compatibility
- D. reusable types and groupings

**Answer:** D

#### NEW QUESTION 7

```
RP/0/RP0/CPU0:XR_CORE666#conf t
Fri May 19 10:45:31.136 UTC
RP/0/RP0/CPU0:XR_CORE666(config)#pce
RP/0/RP0/CPU0:XR_CORE666(config-pce)#address ipv4 10.10.0.15
RP/0/RP0/CPU0:XR_CORE666(config-pce)#commit
```

Refer to the exhibit. XTC has been configured by an engineer. What does the IPv4 address represent on the snippet?

- A. local address of the router on which it listens for PCEP
- B. configured for the local peer for state synchronization
- C. destination address of the router on which it listens for PCEP
- D. configured for the remote peer for state synchronization

**Answer:** A

#### NEW QUESTION 8

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

#### NEW QUESTION 9

An engineer wants to replace the BLOCK\_BAD ACL on the Cisco IOS XE router with this new content. The engineer wants to use RESTCONF for this and constructs a PUT request to the resource `/restconf/data/native/ip/access-list/ Cisco-IOS-XE-acl:extended=BLOCK_BAD`. What must the body look like to achieve the Cisco IOS XE configuration?

Desired configuration:

```
ip access-list extended BLOCK_BAD permit ip any host 192.168.20.1 deny ip any any
```

A.

```
{
  "ip": {
    "access-list": {
      "Cisco-IOS-XE-acl:extended": {
        "name": "BLOCK_BAD",
        "access-list-seq-rule": [
          {
            "sequence": "10",
            "ace-rule": {
              "action": "permit",
              "protocol": "ip",
              "any": [
                null
              ],
            },
            "dst-host": "192.168.20.1"
          },
          {
            "sequence": "20",
            "ace-rule": {
              "action": "deny",
              "protocol": "ip",
              "any": [
                null
              ],
              "dst-any": [
                null
              ]
            }
          }
        ]
      }
    }
  }
}
```

B.

```
{
  "name": "BLOCK_BAD",
  "access-list-seq-rule": [
    {
      "sequence": "10",
      "ace-rule": {
        "action": "permit",
        "protocol": "ip",
        "any": [
          null
        ],
        "dst-host": "192.168.20.1"
      }
    },
    {
      "sequence": "20",
      "ace-rule": {
        "action": "deny",
        "protocol": "ip",
        "any": [
          null
        ],
        "dst-any": [
          null
        ]
      }
    }
  ]
}
```

C.

```
{
  "Cisco-IOS-XE-acl:extended": {
    "name": "BLOCK_BAD",
    "access-list-seq-rule": [
      {
        "sequence": "10",
        "ace-rule": {
          "action": "permit",
          "protocol": "ip",
          "any": [
            null
          ],
          "dst-host": "192.168.20.1"
        }
      },
      {
        "sequence": "20",
        "ace-rule": {
          "action": "deny",
          "protocol": "ip",
          "any": [
            null
          ],
          "dst-any": [
            null
          ]
        }
      }
    ]
  }
}
```

D.

```
{
  "Cisco-IOS-XE-acl:extended": {
    (
      "name": "BLOCK_BAD",
      "access-list-seq-rule": [
        {
          "sequence": "10",
          "ace-rule": {
            "action": "permit",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-host": "192.168.20.1"
          }
        },
        {
          "sequence": "20",
          "ace-rule": {
            "action": "deny",
            "protocol": "ip",
            "any": [
              null
            ],
            "dst-any": [
              null
            ]
          }
        }
      ]
    )
  }
}
```



Answer: D

#### NEW QUESTION 10

```
RP/0/RP0/CPU0:iosxrv-1#show telemetry model-driven subscription
Fri Aug 23 20:39:44.122 UTC
Subscription:          Interface      State: NA
-----
Sensor groups:
Id                     Interval(ms)    State
Interface-Counters    30000          Resolved

Destination Groups:
Id                     Encoding        Transport  State Port  Vrf  IP
DEST1                 self-describing-gpb  grpc      NA   5432  Mgmt-intf 172.16.1.12
TLS :                 172.16.1.12
```

Refer to the exhibit. What is the cause of the status of the interface subscription?

- A. The router cannot establish a gRPC connection with the collector.
- B. The sensor-group "Interface-Counters" does not contain a valid YANG path.
- C. The router is waiting for a collector to dial in.
- D. This is the expected state of an active subscription.

Answer: B

#### NEW QUESTION 10

After a configuration request is sent using NETCONF, which call releases any locks and resources associated with the session?

- A. <exit-operation>
- B. <close-activity>
- C. <close-session>
- D. <boot-app>

Answer: C

#### NEW QUESTION 11

```
<?xml version= "1.0" encoding= "UTF-8" ?>
<employees>
  <employee>
    <id>1</id>
    <firstName>Jane</firstName>
    <firstName>Doe</lastName>
  </employee>
  <employee>
    <id>2</id>
    <firstName>Tim</firstName>
    <lastName>Public</lastName>
  </employee>
  <employee>
    <id>3</id>
    <firstName>John</firstName>
    <lastName>Doe</latName>
  </employee>
</employees>
```

Refer to the exhibit. Using the provided XML snippet, which Xpath expression prints "Jane"?

- A. //employee[1]/firstName/value()
- B. //employee[0]/firstName/value()
- C. //employee[1]/firstName/text()
- D. //employee[0]/firstName/text()

Answer: D

#### NEW QUESTION 15

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 17

Refer to the exhibit. Which command prints out (44, 22) when this code is run on Python 3?

- A. print(swap1(d, b))
- B. print(swap2(a, b))
- C. print(swap1(b, d))
- D. print(swap2(22, 44))

**Answer: C**

### NEW QUESTION 22

```
#!/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', 'suor123')
    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(baseUriOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth, headers=headers)
- D. response = requests.put(baseUriOperation + "/devices/device=ios-device/ssh/request-host-keys", auth=auth, headers=headers)

**Answer: C**

### NEW QUESTION 25

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: BE**

### NEW QUESTION 30

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

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

**Answer: AE**

### NEW QUESTION 33

A user is debugging a problem with model-driven dial-in/out streams with gRPC for a Cisco IOS XR implementation. There is no streaming data and the path is not resolved when the show telemetry model-driven subscription command is issued on the router. What is the cause of the problem?

- A. The emsd process is not running.
- B. There are polling interval problems.

- C. SNMP is not enabled.
- D. There is no support for IOS XR 64-bit.

**Answer:** A

#### NEW QUESTION 35

```
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 39

FILL BLANK

Fill in the blank to complete the statement about NETCONF and Python libraries.

is a Python library that facilitates client-side scripting and deploying changes to the network using the NETCONF protocol.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Ncclient

#### NEW QUESTION 44

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.

**Answer:** D

#### NEW QUESTION 48

Which NETCONF datastore is locked while the network device configuration is edited?

- A. running
- B. common
- C. startup
- D. working

**Answer:** A

#### NEW QUESTION 49

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 52

Which statement describes the Cisco ESC core engine component?

- A. It interacts with the top orchestration layer using the REST and NETCONF/YANG NB APIs.
- B. It can be configured for high availability and cluster mode.
- C. It performs monitoring based on several monitoring methods.
- D. It manages transactions, validations, policies, workflows, VM state machines, and rollbacks.

**Answer: D**

#### NEW QUESTION 57

```
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 network10.1.1.0 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 59

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

**Answer: C**

#### NEW QUESTION 60

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

**Answer: B**

#### NEW QUESTION 61

Refer to the exhibit. What are the two outcomes when the RESTCONF POST code is implemented? (Choose two.)

- A. A new VPN endpoint to a VPN is added.
- B. An L3VPN endpoint to a VPN is replaced.

- C. An L3VPN endpoint to a VPN is merged.
- D. A new L3VPN endpoint to a VPN is added.
- E. An L3VPN endpoint to a VPN is updated.

**Answer:** DE

#### **NEW QUESTION 63**

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