



Cisco

Exam Questions 300-535

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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NEW QUESTION 1

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 2

```
- 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 3

```
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 4

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

Answer: D

NEW QUESTION 5

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 6

```
"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.

Answer: DE

NEW QUESTION 7

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.

Answer: AC

NEW QUESTION 8

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 9

```
<edit-config xmlns= "urn:ietf:params:xml:ns:netconf:base:1.0">
  <target>
    <candidate/>
  </target>
</edit-config>
<config>
  <host-names xmlns= "http://cisco.com/ns/yang/Cisco-IOS-XR-shellutil-cfg">
    <host-name>IOS-XR-SJC-19</host-name>
  </host-names>
</config>
</edit-config>
```

Refer to the exhibit. After this operation, what else is needed to change the hostname of the router to IOS-XR-SJC-19?

- A. <confirm>
- B. <close-session>
- C. <get-config>
- D. <commit>

Answer: D

NEW QUESTION 10

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 10

Which two operations must be used to allow a network engineer to use NETCONF to configure and manage networking devices? (Choose two.)

- A. <get-config>
- B. <open-session>
- C. <close-session>
- D. <remove-config>
- E. <put>

Answer: AC

NEW QUESTION 15

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

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

Answer: A

NEW QUESTION 16

```
curl -u john:password http://192.168.10.20
```

Refer to the exhibit. Which HTTP authentication mechanism is being used?

- A. simple
- B. basic
- C. OAuth
- D. token

Answer: B

NEW QUESTION 20

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 21

```
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 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 26

An engineer just completed the installation of Cisco NSO and all of its components. During testing, some of the services are not working properly. To resolve the issue, the engineer started undeploying service instances. What can this cause?

- A. It removes the service configuration from the network device only.
- B. It removes the service configuration from the network and NSO.
- C. It removes the service configuration from NSO only.
- D. It runs the service code again when the device is out of sync.

Answer: B

NEW QUESTION 31

Which statement describes an asynchronous API communication?

- A. Asynchronous communication waits for a response.
- B. Synchronous communication is with a central orchestrator.
- C. It is not necessary to wait for availability of a resource.
- D. An application can freeze if there is no response from a request.

Answer: C

NEW QUESTION 33

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 35

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