



**Cisco**

## **Exam Questions 300-535**

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

#### 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

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 3

```
- 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 4

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 5

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 6

```
from ydk.services import CRUDService
from ydk.providers import NetconfServiceProvider
from ydk.models.cisco_ios_xr import Cisco_IOS_XR_shellutil_oper \
    as xr_shellutil_oper
from datetime import timedelta

if __name__ == "__main__":
    """Main execution path"""
    provider = NetconfServiceProvider(address="10.0.0.1",
                                     port=830,
                                     username = "admin",
                                     password = "admin",
                                     protocol = "ssh")

    crud = CRUDService()
    system_time = xr_shellutil_oper.SystemTime()
    system_time = crud.read(provider, system_time)
    print("System uptime is" +
          str(timedelta(seconds=system_time.uptime.uptime)))
    exit()
```

Refer to the exhibit. Regarding the Python script using YDK, what is the result for a device that is running Cisco IOS XR Software?

- A. retrieves the system time
- B. configures the system time
- C. prints the uptime of the CRUDService
- D. prints the system uptime

**Answer:** D

#### NEW QUESTION 7

```
tasks:
- name: run show version on remote devices
  iosxr_command:
    commands: show version
```

Refer to the exhibit. What must be added after the last line of the Ansible playbook to check if the output contains "IOS-XR"?

- A. wait\_for: result[1] contains "IOS-XR"
- B. wait\_for: result[0] contains IOS-XR
- C. notify: "IOS-XR"
- D. wait\_for\_connection:

**Answer:** B

#### NEW QUESTION 8

```
"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 9

```
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
- E. If it matches, the device sends back an HTTP 204 status code.

**Answer:** C

#### NEW QUESTION 10

```
<?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 10

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 13

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 15

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 17

```
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 21

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 26

```
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 29

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 30

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 33

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 38

```
module: openconfig-interfaces
  +- -rw interfaces
  +- -rw interface* [name]
  +- -rw name                -> . ./config/name
  +- -rw config
  |   +- -rw type            identityref
  |   +- -rw mtu?            uint16
  |   +- -rw name?           string
  |   +- -rw description?    string
  |   +- -rw enabled?        boolean
  +- -ro state
  |   +- -ro type            identityref
  |   +- -ro mtu?            uint16
  |   +- -ro name?           string
  |   +- -ro description?    string
  |   +- -ro enabled?        boolean
  |   +- -ro ifindex?        uint32
  |   +- -ro admin-status    enumeration
  |   +- -ro oper-status     enumeration
  |   +- -ro last change?    yang:timeticks
  |   +- -ro counters
  |       +- -ro in-octets?    yang:counter64
  |       +- -ro in-unicast-pkts? yang:counter64
  |       +- -ro in-broadcast-pkts? yang:counter64
```

Refer to the exhibit. Which two configuration leaves in this YANG model are optional? (Choose two.)

- A. last-change
- B. oper-status
- C. type
- D. enabled
- E. mtu

**Answer:** AE

#### NEW QUESTION 39

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