



**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

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 3

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 4

```
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 5

```

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 6

Which two commands generate a template using Cisco NSO to build a service package? (Choose two.)

- A. show running-config devices device ce-ios config ios:interface Loopback 0 | display template.xml
- B. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml | save template.xml
- C. request running-config devices device ce-ios config ios:interface Loopback 0 | display xml
- D. show running-config devices device ce-ios config ios:interface Loopback 0
- E. show running-config devices device ce-ios config ios:interface Loopback 0 | display xml

**Answer:** AC

#### NEW QUESTION 7

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 8

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 9

```
<edit-config xmlns= "urn:ietf:params:xml:ns:netconf:base:1.0">
  <target>
    <candidate/>
  </target>
<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

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 10

Refer to the exhibit. What is the significance of "\*" before the "father" leaf that is shown in the pyang tree output?

- A. It is a node list in a leaf type node.
- B. The father leaf is a key in the family list type.
- C. The leaf father is read-write in the family list.
- D. The node father is read-only in the family list.

**Answer: C**

#### NEW QUESTION 12

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 16

```

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 17

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.

**Answer:** DE

#### NEW QUESTION 18

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 23

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 26

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 28

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

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

Answer: A

### NEW QUESTION 32

```
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 34

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 35

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 36

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 39**

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