300-535 Q&As

Automating and Programming Cisco Service Provider Solutions (SPAUTO)

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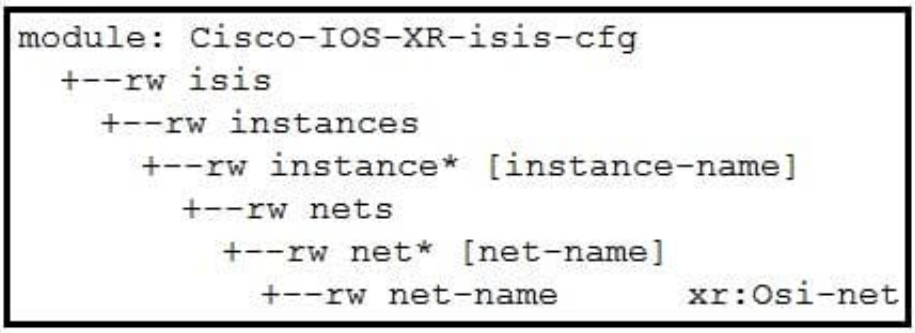
QUESTION 1



Refer to the exhibit. Which XML output is a valid instantiation of the YANG model?

A.

```
<isis>
 <instances>
  <instance>
    <instance-name>1</instance-name>
    <nets>
      <net>
        <net-name>49.0010.0100.1001.00</net-name>
      </net>
     <nets>
    </instance>
 </instances>
</isis>
```

B.

```
<isis>
 <instances>
    <instance>1</instance>
    <nets>
        <net>xr:Osi-net 49.0100.1001.00</net>
     <nets>
  </instances>
</isis>
```

C.

```
<isis>
 <instances>
   <instance>
     <instance-name>
      <nets>
       <net>
        <net-name>
          1, 49.0010.0100.1001.00
        </net-name>
       </net>
      </nets>
     </instance-name>
   </instance>
  </instances>
</isis>
```

D.

```
<isis>
  <instances>
    <instance>
      <instance-name>1</instance-name>
      <nets
         <net>
           <net-name>[49.0010.0100.1001.00]</net-name>
         </net>
       </nets>
    </instance>
  </instances>
</isis>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

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

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/iosxr/asr9000/telemetry/b-telemetry-cg-asr9000-61x/b-telemetry-cg-asr9000-61x_chapter_010.html

QUESTION 3

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

Correct Answer: D

Reference: https://pynet.twb-tech.com/blog/automation/netmiko.html

QUESTION 4

A Cisco NSO service has just been deployed. Which Cisco NSO CLI command is used to inspect the resulting device configuration changes before the changes are pushed to the network?

A. show service impact

B. commit dry-run outformat native

C. pseudo-commit

D. show dry-run output

Correct Answer: B

QUESTION 5

```
#!/user/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(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)

Correct Answer: C

QUESTION 6

```
"request": {
    "url": "http://{{server}}:{{port}}/restconf/data/l3vpn:vpn/l3vpn=test",
    "method": "POST",
<snip>
```

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.

Correct Answer: DE

QUESTION 7

Which command configures the remote peer when the Cisco IOS XR Traffic Controller is used?

A. peer-sync ipv4 192.168.0.3

B. state ipv4 192.168.0.3

C. peer ipv4 192.168.0.3

D. state-sync ipv4 192.168.0.3

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/td/docs/routers/asr9000/software/asr9k-r6-2/segment-routing/configuration/guide/b-segment-routing-cg-asr9000-62x/b-seg-routing-cg-asr9000-62x_chapter_01001.html

QUESTION 8

```
a = 11
b = 22
c = 33
d = 44

def swap1(a, b) :
       if a == b:
           return 2 * a, b
     else:
          a, b = b, a
          return a, b

def swap2(c, d) :
         if c < d:
                print(d, 2 * c)
     else:
          print(44, 22)
```

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))

Correct Answer: C

QUESTION 9

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.

Correct Answer: D

QUESTION 10

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

A. running

B. common

C. startup D. working

Correct Answer: A

QUESTION 11

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.

Correct Answer: D

QUESTION 12

```
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

Correct Answer: A

Reference: http://ipnetworkgeek.blogspot.com/2017/05/path-disjointness-with-ios-xr-traffic.html

QUESTION 13

```
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

Correct Answer: D

QUESTION 14

```
- 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.

Correct Answer: A

Reference: https://docs.ansible.com/ansible/latest/modules/iosxr_bgp_module.html

QUESTION 15

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

Correct Answer: B

Reference: https://books.google.com/books?id=jWVsAQAAQBAJandpg=PA21andlpg=PA21anddq=schema+allows+device+configuration+elements+to+be+enclosed+within+a+remote+procedure+call+message+when+NETCONF+is +implementedandsource=blandots=mcS25iO8ecandsig=ACfU3U08SQUN0Y7L2-An37GjHRqBzLGFUAandhl=enandsa=Xandved=2ahUKEwir16OF4dbpAhV7GjQIHc64B5kQ6AEwAHoECAoQAQ#v=onepageandq=schema%20allows%20device%20configuration%20elements%20to%20be%20enclosed%20within%20a%20remote%20procedure%20call%20message%20when%20NETCONF%20is%20implementedandf=false