300-435 Q&As

Automating and Programming Cisco Enterprise Solutions (ENAUTO)

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QUESTION 1

```
telemetry ietf subscription 154
 encoding encode-tdl
 filter xpath /memory-ios-xe-oper:memory-statistics/memory-statistic
 source-vrf Mgmt-intf
 stream yang-push
 update-policy periodic 6000
```

Refer to the exhibit. The configuration commands are entered in CLI config mode to configure a static telemetry subscription on a Cisco IOS XE device. The commands are accepted by the device, but the consumer receives no telemetry data. Which change must be made to ensure that the consumer receives the telemetry data?

A. The IP address of the receiver must be set.

B. The stream type must be set to YANG.

C. The update policy period must be shortened.

D. The sender IP address must be set.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/1610/b_1610_programmability_cg/model_driven_telemetry.html

QUESTION 2

DRAG DROP

```
$ pyang -f tree ietf-interfaces.yang
module: ietf-interfaces
  +--rw interfaces
  |  +--rw interface* [name]
  |     +--rw name                          string
  |     +--rw description?                  string
  |     +--rw type                          identityref
  |     +--rw enabled?                      boolean
  |     +--ro statistics
  |        +--ro discontinuity-time    yang:date-and-time
  |        +--ro in-unicast-pkts?      yang:counter64
  |        +--ro in-broadcast-pkts?    yang:counter64
  x--ro interfaces-state
     x--ro interface* [name]
        x--ro name                 string
        x--ro type                 identityref
        x--ro admin-status         enumeration {if-mib}?
        x--ro oper-status          enumeration
        x--ro statistics
           x--ro discontinuity-time    yang:date-and-time
           x--ro in-octets?            yang:counter64
           x--ro in-unicast-pkts?      yang:counter64
```

Refer to the exhibit. Drag and drop the code from the bottom onto the box where the code is missing to complete the ncclient request that captures the operational data of the interfaces of a Cisco IOS XE device. Options may be used once, more than once, or not at all.

Select and Place:

```
from ncclient import manager
import xml.dom.minidom

USERNAME = 'cisco'
PASSWORD = 'cisco'
HOST = '10.10.20.181'

data = '''
    <  [          ]  xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
       <  [          ]  >
          <statistics></statistics>
       </ [          ]  >
    </ [          ]  >
'''

with manager.connect(host=HOST, password=PASSWORD, port=830, username=USERNAME,
                     hostkey_verify=False, device_params={'name':'iosxe'}) as m:
    c = m.get(filter=(" [          ] ", data)).data_xml

    xml = xml.dom.minidom.parseString(c)
    xml_pretty_str = xml.toprettyxml()
    print(xml_pretty_str)
```

interfaces-state	interface-state	interfaces
xpath	subtree	interface

Correct Answer:

```
from ncclient import manager
import xml.dom.minidom

USERNAME = 'cisco'
PASSWORD = 'cisco'
HOST = '10.10.20.181'

data = '''
    < interfaces-state  xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
       < xpath          >
          <statistics></statistics>
       </ interface     >
    </ interfaces-state >
'''

with manager.connect(host=HOST, password=PASSWORD, port=830, username=USERNAME,
                     hostkey_verify=False, device_params={'name':'iosxe'}) as m:
    c = m.get(filter=(" subtree ", data)).data_xml

    xml = xml.dom.minidom.parseString(c)
    xml_pretty_str = xml.toprettyxml()
    print(xml_pretty_str)
```

interfaces-state	interface-state	interfaces
xpath	subtree	interface

QUESTION 3

```
from ncclient import manager
with manager.connect(
      host='10.0.0.1',
      port=12022,
      username='cisco',
      password='cisco',
      hostkey_verify=False,
      allow_agent=False,
      look_for_keys=False,
      device_params={'name': 'iosxe'},
   ) as m:
```

Refer to the exhibit. What is the correct ncclient method to use to collect the running configuration of a Cisco IOS XE device that uses NETCONF?

A. config=m.copy_config(source=\\'running\\')

B. config=m.get(source=\\'running\\')

C. config=m.collect_config(source=\\'running\\')

D. config=m.get_config(source=\\'running\\')

Correct Answer: A

Reference: https://ncclient.readthedocs.io/en/latest/

QUESTION 4

```
module: Cisco-IOS-XE-vlan-oper
  +--ro vlans
     +--ro vlan* [id]
        +--ro id                    uint16
        +--ro name?                 string
        +--ro status?               vlan-iso-xe-oper:vlan-status-type
        +--ro ports* []
        |  +--ro interface?         string
        |  +--ro subinterface?      uint32
        +--ro vlan-interfaces*   [interface]
           +--ro interface          string
           +--ro subinterface       uint32
```

Refer to the exhibit. Which NETCONF protocol operation is used to interact with the YANG model?

A.

B.

C.

D.

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs-r6-4/programmability/configuration/guide/b-programmability-cg-crs-64x.pdf

QUESTION 5

```
import requests
import sys

requests.package.urllib3.disable_warnings()

HOST = '10.1.2.3'
PORT = 9443
USER = 'user'
PASS = 'password'

def main():
    url = "https://{h}:{p}/restconf/data/Cisco-IOS-XE-native:native/
hostname".format(h=HOST, p=PORT)
    headers = {'Content-Type': 'application/ [          ] ',
               'Accept': 'application/ [          ] '}
    response = requests.get(url, auth=(USER,PASS),
                            headers=headers, verify=False)
    print(response.text)

if __name__ == '__main__':
    sys.exit(main())
```

Refer to the exhibit. An engineer creates a Python script using RESTCONF to display hostname information. The code must be completed so that it can be tested. Which string completes the highlighted areas in the exhibit?

A. yang-data+json

B. yang +json

C. yang.data+json

D. json

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/restconf_prog_int.html