## Lab 2.8- NETCONF w/Python: Device Configuration

```
lab28_sharonolvera.py X
lab27_sharonolvera.py
lab28_sharonolvera.py > ...

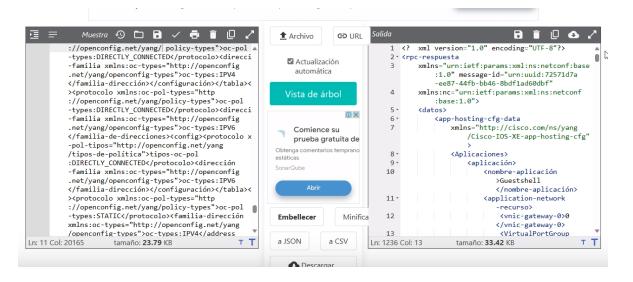
#Autor: Sharon Michelle Olvera Ibarra
#Descripción: Configuración NETCONF con Python: Configuración del dispositivo
#Fecha: 05/12/2023

from ncclient import manager

m = manager.connect(
host = "10.10.20.48",
port = 830,
username = "developer",
password = "C1sco12345",
hostkey_verify = False

netconf_reply = m.get_config(source="running")
print(netconf_reply)
netconf_reply)
```

| Problems | Output | Debug Console | TERMINAL | PORTS | Problems | Ports | Problems | P



```
lab28_sharonolvera.py > ...
      #Autor: Sharon Michelle Olvera Ibarra
      #Descripción: Configuración NETCONF con Python: Configuración del dispositivo
      #Fecha: 05/12/2023
      from ncclient import manager
      import xml.dom.minidom
     m = manager.connect(
          host = "10.10.20.48",
          port = 830,
         username = "developer",
          password = "C1sco12345",
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          hostkey_verify = False
     netconf_filter = """
     <filter>
          <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native" />
      </filter>
      netconf_reply = m.get_config(source="running", filter=netconf_filter)
      print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
```

El script genera un error, puede ser a causa de que el servicio esta dado de baja.

## PARTE 2

```
💠 lab28_2_olverasharon.py > ...
      #Autor: Sharon Michelle Olvera Ibarra
      #Descripción: Configuración NETCONF con Python: Configuración del dispositivo
     #Fecha: 05/12/2023
     from ncclient import manager
     import xml.dom.minidom
     m = manager.connect(
         host = "10.10.20.48",
         port = 830,
         username = "developer",
          password = "C1sco12345",
          hostkey verify = False
     netconf_data = """
     <config>
        <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
           <hostname>NEWHOSTNAME</hostname>
        </native>
                                                                 I
      </config>
      netconf_reply = m.edit_config(target="running", config=netconf_data)
      print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
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```

```
🧬 10.10.20.48 - PuTTY
                                                                      Password:
💤 End of keyboard-interactive prompts from server
Welcome to the DevNet Sandbox for Cat8000V and IOS XE
The following programmability features are already enabled:
-NETCONF
-RESTCONF
Thanks for stopping by.
cat8000v#sh ip int brief
                 IP-Address OK? Method Status
Interface
                                                                     Protocol
GigabitEthernetl
                     10.10.20.48
                                    YES NVRAM up
                    unassigned
GigabitEthernet2
                                    YES NVRAM administratively down down
                    unassigned
                                    YES NVRAM administratively down down
GigabitEthernet3
                     10.0.0.1
                                    YES NVRAM up
Loopback0
                                                                     up
                                    YES unset
                     unassigned
Loopback10
                                               up
                                                                     up
Loopback109
                     10.255.255.9
                                     YES NVRAM
                                               up
                                                                     up
VirtualPortGroup0
                     192.168.1.1
                                     YES NVRAM up
                                                                     up
cat8000v#
```

```
netconf_data = """
<config>
<native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
 <interface>
  <Loopback>
   <name>100</name>
    <description>TEST1</description>
    <ip>
    <address>
     mary>
      <address>100.100.100</address>
      <mask>255.255.255.0</mask>
     </primary>
    </address>
    </ip>
  </Loopback>
  </interface>
</native>
</config>
netconf_reply = m.edit_config(target="running", config=netconf_data)
print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
```

```
from ncclient import manager
import xml.dom.minidom
m = manager.connect(
   host = "10.10.20.48",
    port = 830,
   username = "developer",
    password = "C1sco12345",
    hostkey verify = False
netconf_data = """
<config>
<native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
  <interface>
   <Loopback>
    <name>111</name>
    <description>TEST1</description>
    <ip>
    <address>
     primary>
       <address>100.100.100</address>
       <mask>255.255.255.0</mask>
     </primary>
    </address>
    </ip>
   </Loopback>
  </interface>
 </native>
</config>
netconf_reply = m.edit_config(target="running", config=netconf_data)
print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
```