



codebeautify.org/xmlviewer#

Sample

```
<?xml version='1.0'>
<name>default</name><config><name>default
</name><type xmlns:oc-ni-types="http
://openconfig.net/yang/network-instance
-types">oc-ni-types:DEFAULT_INSTANCE</type
><description>default-vrf [read-only]
</description></config><tables><table
><protocol xmlns:oc-pol-types="http
://openconfig.net/yang/policy-types">oc
-pol-types:DIRECTLY_CONNECTED</protocol
><address-family xmlns:oc-types="http
://openconfig.net/yang/openconfig-types"
>oc-types:IPV4</address-family><config
><protocol xmlns:oc-pol-types="http
://openconfig.net/yang/policy-types">oc
-pol-types:DIRECTLY_CONNECTED</protocol
><address-family xmlns:oc-types="http
://openconfig.net/yang/openconfig-types"
>oc-types:IPV4</address-family></config
></table><table><protocol xmlns:oc-pol
```

Ln: 11 Col: 21473 size: 24.63 KB

File URL

☒ Auto Update

Tree View

Output

```
app ..
  application-name guestshell
  application-network-resource ..
    vnic-gateway-0 0
    virtualportgroup-guest-interface
      name-1 0
    virtualportgroup-guest-ip-address
      1 192.168.1.2
    virtualportgroup-guest-ip-netmask
      1 255.255.255.0
```

Beautify Minify

14° Búsqueda

ENG 12:55 a.m. 03/12/2023

File Edit Selection View Go Run ...

Scripts

lab 2.7.py Lab 2.2.py Lab 2.5.py Lab 2.5part2.py Lab 2.5part3.py Lab 2.8.py

Lab 2.8.py > ...

```
5 import xml.dom.minidom
6 from ncclient import manager
7
8 m = manager.connect(
9     host="10.10.20.48",
10    port=830,
11    username="developer",
12    password="Cisco12345",
13    hostkey_verify=False
14 )
15
16 netconf_reply = m.get_config(source="running")
17 print( xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
18
19
20
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

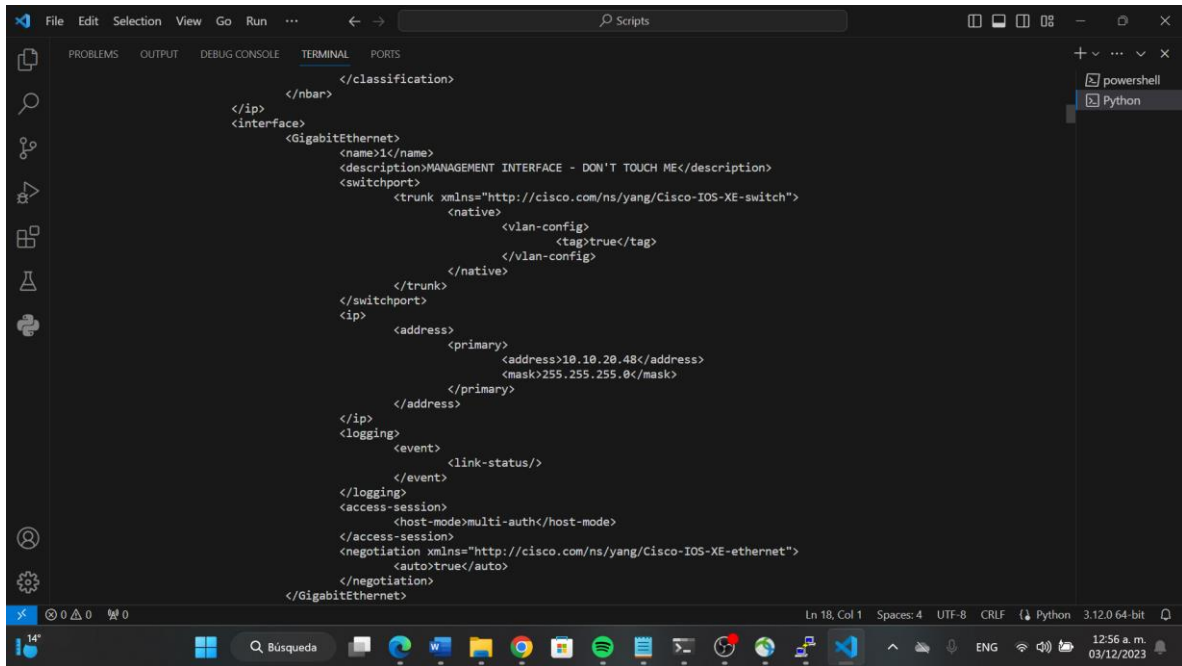
powerShell

PS C:\Users\bryan\OneDrive\Documents\utng\TSU\Cuarto Cuatrimestre\Unidad 3 Programacion de Redes\Laboratorios\Scripts>

Ln 20, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit

14° Búsqueda

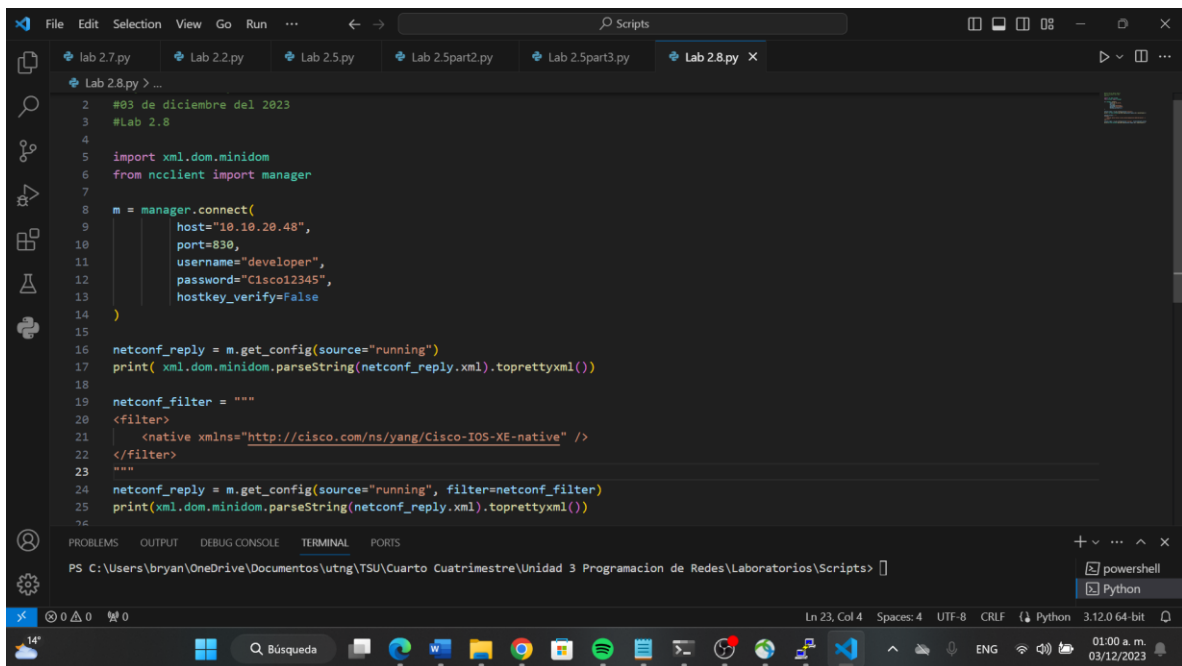
ENG 12:55 a.m. 03/12/2023



This screenshot shows a VS Code editor window with a single file named 'Scripts'. The editor displays a YANG model for a management interface. The model is structured as follows:

```
</nbar>
</ip>
<interface>
  <GigabitEthernet>
    <name>1</name>
    <description>MANAGEMENT INTERFACE - DON'T TOUCH ME</description>
    <switchport>
      <trunk xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-switch">
        <native>
          <vlan-config>
            <tag>true</tag>
          </vlan-config>
        </native>
      </trunk>
    </switchport>
    <ip>
      <address>
        <primary>
          <address>10.10.20.48</address>
          <mask>255.255.255.0</mask>
        </primary>
      </address>
    </ip>
    <logging>
      <event>
        <link-status/>
      </event>
    </logging>
    <access-session>
      <host-mode>multi-auth</host-mode>
    </access-session>
    <negotiation xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-ethernet">
      <auto>true</auto>
    </negotiation>
  </GigabitEthernet>
</interface>
```

The status bar at the bottom indicates the file is at line 18, column 1, using UTF-8 encoding with CRLF line endings. The system tray shows the date and time as 12:56 a.m. on 03/12/2023.



This screenshot shows a VS Code editor window with multiple tabs open, including 'Lab 2.8.py'. The active tab shows a Python script that connects to a network device and retrieves configuration data. The script is as follows:

```
2 #03 de diciembre del 2023
3 #Lab 2.8
4
5 import xml.dom.minidom
6 from ncclient import manager
7
8 m = manager.connect(
9     host="10.10.20.48",
10    port=830,
11    username="developer",
12    password="Cisco12345",
13    hostkey_verify=False
14 )
15
16 netconf_reply = m.get_config(source="running")
17 print( xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
18
19 netconf_filter = """
20 <filter>
21 |   <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native" />
22 </filter>
23 """
24
25 netconf_reply = m.get_config(source="running", filter=netconf_filter)
26 print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
27
```

The status bar at the bottom indicates the file is at line 23, column 4, using UTF-8 encoding with CRLF line endings. The system tray shows the date and time as 01:00 a.m. on 03/12/2023.

```
File Edit Selection View Go Run ... Scripts
lab 2.7.py Lab 2.2.py Lab 2.5.py Lab 2.5part2.py Lab 2.8.py Lab 2.8part2.py X Lab 2.8part3.py
Lab 2.8part2.py > ...
1 #Bryan Adrian Reyes Ibarra
2 #03 de diciembre del 2023
3 #Lab 2.8 part 2
4
5 from ncclient import manager
6 import xml.dom.minidom
7
8 m = manager.connect(
9     host="10.10.20.48",
10    port=830,
11    username="developer",
12    password="Cisco12345",
13    hostkey_verify=False
14 )
15
16 netconf_data = """
17 <config>
18   <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
19     <hostname>NEWHOSTNAME</hostname>
20   </native>
21 </config>
22 """
23 netconf_reply = m.edit_config(target="running", config=netconf_data)
24 print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
25
Ln 21, Col 10 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit
15° Búsqueda 01:35 a.m. 03/12/2023
```

```
File Edit Selection View Go Run ... Scripts
lab 2.7.py Lab 2.2.py Lab 2.5.py Lab 2.5part2.py Lab 2.8.py Lab 2.8part2.py Lab 2.8part3.py X
Lab 2.8part3.py > ...
10     port=830,
11     username="developer",
12     password="Cisco12345",
13     hostkey_verify=False
14 )
15
16 netconf_data = """
17 <config>
18   <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
19     <interface>
20       <Loopback>
21         <name>100</name>
22         <description>TEST1</description>
23         <ip>
24           <address>
25             <primary>
26               <address>100.100.100.100</address>
27               <mask>255.255.255.0</mask>
28             </primary>
29           </address>
30         </ip>
31       </Loopback>
32     </interface>
33   </native>
34 </config>
35 """
36 netconf_reply = m.edit_config(target="running", config=netconf_data)
37 print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
38
Ln 33, Col 11 Spaces: 4 UTF-8 CRLF Python 3.12.0 64-bit
15° Búsqueda 01:35 a.m. 03/12/2023
```

