



The screenshot shows a Visual Studio Code window with a Python script named `Fecha Moday 7 december.py` open. The script is a Python application that interacts with a network device via a REST API. It defines a `netconf_filter` XML string, sends a GET request to `http://10.10.20.48:830` with the filter, and processes the response. The script is located at `/home/dukogg/programacion_redes/UNIDAD 3/2.9Lab/# Fecha Moday 7 december.py`.

```
1 # Alumno Gerardo Antonio García Vázquez
2 # Laboratorio 2.9
3
4 from ncclient import manager
5 import xml.dom.minidom
6
7 m = manager.connect(
8     host="10.10.20.48",
9     port=830,
10    username="developer",
11    password="Cisc0l2345",
12    hostkey_verify=False
13 )
14
15 netconf_filter = """
16 <filter>
17   <interfaces-state xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">
18   </interfaces-state>
19 </filter>
20 """
21
22 netconf_reply = m.get(filter=netconf_filter)
23 print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
24
25 import xmltodict
26 netconf_reply_dict = xmltodict.parse(netconf_reply.xml)
27 for interface in netconf_reply_dict["rpc-reply"]["data"]["interfaces-state"]["interface"]:
28     print("Name: {} MAC: {} Input: {} Output: {}".format(
29         interface["name"],
30         interface["phys-address"],
31         interface["statistics"]["in-octets"],
32         interface["statistics"]["out-octets"]
33     ))
34
35
```

The terminal output shows a traceback error:

```
dukogg@dukogg:~/programacion_redes/UNIDAD 3/2.9Lab/# Fecha Moday 7 december.py
Traceback (most recent call last):
  File "/home/dukogg/programacion_redes/UNIDAD 3/2.9Lab/# Fecha Moday 7 december.py", line 23, in <module>
    netconf_reply = m.get(filter=netconf_filter)
  File "/home/dukogg/.local/lib/python3.10/site-packages/ncclient/manager.py", line 246, in execute
    return cls(self.session,
  File "/home/dukogg/.local/lib/python3.10/site-packages/ncclient/operations/retrieve.py", line 91, in request
    return self._request(node)
  File "/home/dukogg/.local/lib/python3.10/site-packages/ncclient/operations/rpc.py", line 375, in _request
    raise self._reply.error
ncclient.operations.rpc.RPCError: ('type': 'protocol', 'tag': 'unknown-element', 'app tag': None, 'severity': 'error', 'info': '<?xml version="1.0" encoding="UTF-8"?><error-info xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xml
ns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><bad-element>filter</bad-element></error-info>\n', 'path': '\n /rpc/get\n ', 'message': None)
dukogg@dukogg:~/programacion_redes/UNIDAD 3/2.9Lab/#
```