



Universidad Tecnológica
del Norte de Guanajuato
Organismo Público Descentralizado del Gobierno del Estado

"Educación y progreso para la vida"

Tecnologías de la Información y Comunicación

Programa educativo: TSU en Infraestructura de Redes Digitales

Área académica: Programación de Redes

Asignatura:

Unidad 3

Grupo: GIR0441

[2.7 Lab - NETCONF wPython List Capabilities.docx](#)

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Dolores Hidalgo, C.I.N., Gto., jueves 24 de noviembre de 2022

Introducción

En el presente documento se hablará de la instalación de ncclient en donde

```
C:\Users\valeria>pip install ncclient
Collecting ncclient
  Using cached ncclient-0.6.13-py2.py3-none-any.whl
Requirement already satisfied: setuptools>0.6 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from ncclient) (65.5.0)
Requirement already satisfied: paramiko>=1.15.0 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from ncclient) (2.12.0)
Collecting lxml>=3.3.0
  Using cached lxml-4.9.1.tar.gz (3.4 MB)
  Preparing metadata (setup.py) ... done
Requirement already satisfied: six in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from ncclient) (1.16.0)
Requirement already satisfied: bcrypt>=3.1.3 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from paramiko>=1.15.0->ncclient) (4.0.1)
Requirement already satisfied: cryptography>=2.5 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from paramiko>=1.15.0->ncclient) (38.0.4)
Requirement already satisfied: pynacl>=1.0.1 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from paramiko>=1.15.0->ncclient) (1.5.0)
Requirement already satisfied: cffi>=1.12 in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from cryptography>=2.5->paramiko>=1.15.0->ncclient) (1.15.1)
Requirement already satisfied: pycparser in c:\users\valeria\appdata\local\programs\python\python311\lib\site-packages (from cffi>=1.12->cryptography>=2.5->paramiko>=1.15.0->ncclient) (2.21)
Building wheels for collected packages: lxml
[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
```

En este apartado se deberá escribir el siguiente código import ncclient

from ncclient import manager

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

```
print("#Supported Capabilities (YANG models):")
```

```
for capability in m.server_capabilities:
```

```
    print(capability)
```

lab2.7.py - C:/Users/valeria/AppData/Local/Programs/Python/Python311/lab2.7.py (3.11.0)

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```
import ncclient
from ncclient import manager

m = manager.connect(
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    username="developer",
    password="C1sco12345",
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print("#Supported Capabilities (YANG models):")
for capability in m.server_capabilities:
    print(capability)
|
```