Materia:

Fundamentos de telecomunicaciones
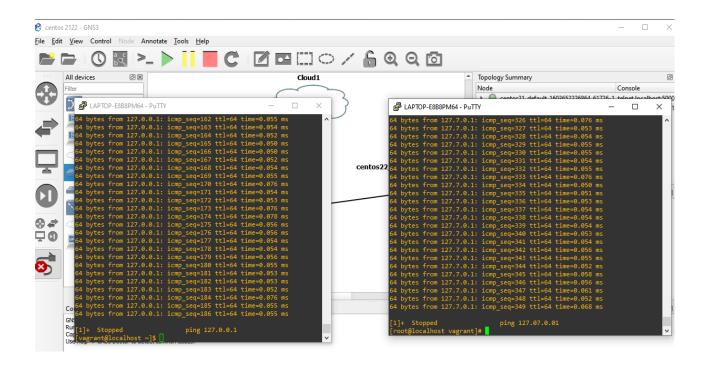
Scrips de Python

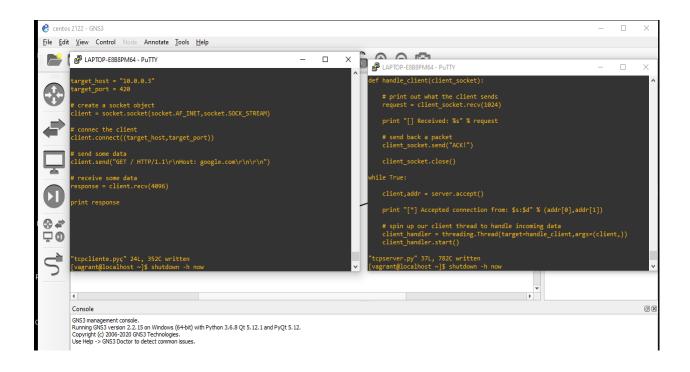**Profesor:**

Ismael Jiménez Sánchez

Alumno:

Ángel Eduardo Hernández Pimentel

centos 2122 - GNS3

File Edit View Control Node Annotate Tools Help

All devices

Filter

Cloud1

LAPTOP-E8B8PM64 - PuTTY

```
64 bytes from 127.0.0.1: icmp_seq=162 ttl=64 time=0.055 ms
64 bytes from 127.0.0.1: icmp_seq=163 ttl=64 time=0.054 ms
64 bytes from 127.0.0.1: icmp_seq=164 ttl=64 time=0.052 ms
64 bytes from 127.0.0.1: icmp_seq=165 ttl=64 time=0.050 ms
64 bytes from 127.0.0.1: icmp_seq=166 ttl=64 time=0.050 ms
64 bytes from 127.0.0.1: icmp_seq=167 ttl=64 time=0.052 ms
64 bytes from 127.0.0.1: icmp_seq=168 ttl=64 time=0.054 ms
64 bytes from 127.0.0.1: icmp_seq=169 ttl=64 time=0.055 ms
64 bytes from 127.0.0.1: icmp_seq=170 ttl=64 time=0.076 ms
64 bytes from 127.0.0.1: icmp_seq=171 ttl=64 time=0.054 ms
64 bytes from 127.0.0.1: icmp_seq=172 ttl=64 time=0.053 ms
64 bytes from 127.0.0.1: icmp_seq=173 ttl=64 time=0.076 ms
64 bytes from 127.0.0.1: icmp_seq=174 ttl=64 time=0.078 ms
64 bytes from 127.0.0.1: icmp_seq=175 ttl=64 time=0.056 ms
64 bytes from 127.0.0.1: icmp_seq=176 ttl=64 time=0.056 ms
64 bytes from 127.0.0.1: icmp_seq=177 ttl=64 time=0.054 ms
64 bytes from 127.0.0.1: icmp_seq=178 ttl=64 time=0.054 ms
64 bytes from 127.0.0.1: icmp_seq=179 ttl=64 time=0.056 ms
64 bytes from 127.0.0.1: icmp_seq=180 ttl=64 time=0.055 ms
64 bytes from 127.0.0.1: icmp_seq=181 ttl=64 time=0.053 ms
64 bytes from 127.0.0.1: icmp_seq=182 ttl=64 time=0.053 ms
64 bytes from 127.0.0.1: icmp_seq=183 ttl=64 time=0.052 ms
64 bytes from 127.0.0.1: icmp_seq=184 ttl=64 time=0.076 ms
64 bytes from 127.0.0.1: icmp_seq=185 ttl=64 time=0.055 ms
64 bytes from 127.0.0.1: icmp_seq=186 ttl=64 time=0.055 ms

[1]+  Stopped                 ping 127.0.0.1
[vagrant@localhost ~]$
```

Topology Summary

Node   Console

centos22

LAPTOP-E8B8PM64 - PuTTY

```
64 bytes from 127.7.0.1: icmp_seq=326 ttl=64 time=0.076 ms
64 bytes from 127.7.0.1: icmp_seq=327 ttl=64 time=0.053 ms
64 bytes from 127.7.0.1: icmp_seq=328 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=329 ttl=64 time=0.055 ms
64 bytes from 127.7.0.1: icmp_seq=330 ttl=64 time=0.055 ms
64 bytes from 127.7.0.1: icmp_seq=331 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=332 ttl=64 time=0.055 ms
64 bytes from 127.7.0.1: icmp_seq=333 ttl=64 time=0.076 ms
64 bytes from 127.7.0.1: icmp_seq=334 ttl=64 time=0.050 ms
64 bytes from 127.7.0.1: icmp_seq=335 ttl=64 time=0.051 ms
64 bytes from 127.7.0.1: icmp_seq=336 ttl=64 time=0.053 ms
64 bytes from 127.7.0.1: icmp_seq=337 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=338 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=339 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=340 ttl=64 time=0.053 ms
64 bytes from 127.7.0.1: icmp_seq=341 ttl=64 time=0.054 ms
64 bytes from 127.7.0.1: icmp_seq=342 ttl=64 time=0.056 ms
64 bytes from 127.7.0.1: icmp_seq=343 ttl=64 time=0.055 ms
64 bytes from 127.7.0.1: icmp_seq=344 ttl=64 time=0.052 ms
64 bytes from 127.7.0.1: icmp_seq=345 ttl=64 time=0.058 ms
64 bytes from 127.7.0.1: icmp_seq=346 ttl=64 time=0.056 ms
64 bytes from 127.7.0.1: icmp_seq=347 ttl=64 time=0.061 ms
64 bytes from 127.7.0.1: icmp_seq=348 ttl=64 time=0.052 ms
64 bytes from 127.7.0.1: icmp_seq=349 ttl=64 time=0.068 ms

[1]+  Stopped                 ping 127.07.0.01
[root@localhost vagrant]#
```


centos 2122 - GNS3

File Edit View Control Node Annotate Tools Help

LAPTOP-E8B8PM64 - PuTTY

```
target_host = "10.0.0.3"
target_port = 420

# create a socket object
client = socket.socket(socket.AF_INET,socket.SOCK_STREAM)

# connec the client
client.connect((target_host,target_port))

# send some data
client.send("GET / HTTP/1.1\r\nHost: google.com\r\n\r\n")

# receive some data
response = client.recv(4096)

print response




"tcpcliente.pyç" 24L, 352C written
[vagrant@localhost ~]$ shutdown -h now
```

LAPTOP-E8B8PM64 - PuTTY

```
def handle_client(client_socket):

    # print out what the client sends
    request = client_socket.recv(1024)

    print "[] Received: %s" % request

    # send back a packet
    client_socket.send("ACK!")

    client_socket.close()

while True:

    client,addr = server.accept()

    print "[*] Accepted connection from: $s:$d" % (addr[0],addr[1])

    # spin up our client thread to handle incoming data
    client_handler = threading.Thread(target=handle_client,args=(client,))
    client_handler.start()

"tcpserver.py" 37L, 782C written
[vagrant@localhost ~]$ shutdown -h now
```

Console

GNS3 management console.
Running GNS3 version 2.2.15 on Windows (64-bit) with Python 3.6.8 Qt 5.12.1 and PyQt 5.12.
Copyright (c) 2006-2020 GNS3 Technologies.
Use Help -> GNS3 Doctor to detect common issues.

```
   Installing      : python36-3.6.8-2.module_el8.1.0+245+c39af44f.x86_64       4/7
   Running scriptlet: python36-3.6.8-2.module_el8.1.0+245+c39af44f.x86_64       4/7
   Installing      : python3-pip-9.0.3-16.el8.noarch                            5/7
   Cleanup         : platform-python-pip-9.0.3-13.el8.noarch                    6/7
   Cleanup         : platform-python-setuptools-39.2.0-4.el8.noarch             7/7
   Running scriptlet: platform-python-setuptools-39.2.0-4.el8.noarch            7/7
   Verifying       : python3-pip-9.0.3-16.el8.noarch                            1/7
   Verifying       : python36-3.6.8-2.module_el8.1.0+245+c39af44f.x86_64        2/7
   Verifying       : python3-setuptools-39.2.0-5.el8.noarch                     3/7
   Verifying       : platform-python-pip-9.0.3-16.el8.noarch                    4/7
   Verifying       : platform-python-pip-9.0.3-13.el8.noarch                    5/7
   Verifying       : platform-python-setuptools-39.2.0-5.el8.noarch             6/7
   Verifying       : platform-python-setuptools-39.2.0-4.el8.noarch             7/7

Upgraded:
  platform-python-pip-9.0.3-16.el8.noarch
  platform-python-setuptools-39.2.0-5.el8.noarch

Installed:
  python36-3.6.8-2.module_el8.1.0+245+c39af44f.x86_64
  python3-pip-9.0.3-16.el8.noarch
  python3-setuptools-39.2.0-5.el8.noarch

Complete!
[vagrant@localhost ~]$
```

CTRL DERECHA

```
 <Socket>={-t|--tcp} {-u|--udp} {-U|--udplite} {-S|--sctp} {-w|--raw}
         {-x|--unix} --ax25 --ipx --netrom
 <AF>=Use '-6|-4' or '-A <af>' or '--<af>'; default: inet
 List of possible address families (which support routing):
    inet (DARPA Internet) inet6 (IPv6) ax25 (AMPR AX.25)
    netrom (AMPR NET/ROM) ipx (Novell IPX) ddp (Appletalk DDP)
    x25 (CCITT X.25)
[root@localhost vagrant]# netstat -tapn | grep LISTEN
tcp        0      0 0.0.0.0:22          0.0.0.0:*          LISTEN      785/sshd
tcp        0      0 0.0.0.0:111         0.0.0.0:*          LISTEN      1/systemd
tcp6       0      0 :::22               :::*               LISTEN      785/sshd
tcp6       0      0 :::111              :::*               LISTEN      1/systemd
[root@localhost vagrant]#
```