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CSCI 400 Lab 11  
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<https://pwn.college/intro-to-cybersecurity/intercepting-communication/>

- Connect

A screenshot of a terminal window titled "Terminal - root@ip-10-0-0-1: ~". The window shows the command "nc 10.0.0.2 31337" being run, followed by the output "pwn.college{E3xBnd5bBBAh5ueJULGMC4024Ec.QX5UzMzwCO2kjMzEzW}". The terminal is part of a desktop environment with a dock at the bottom containing icons for Desktop, Flag, and other applications.

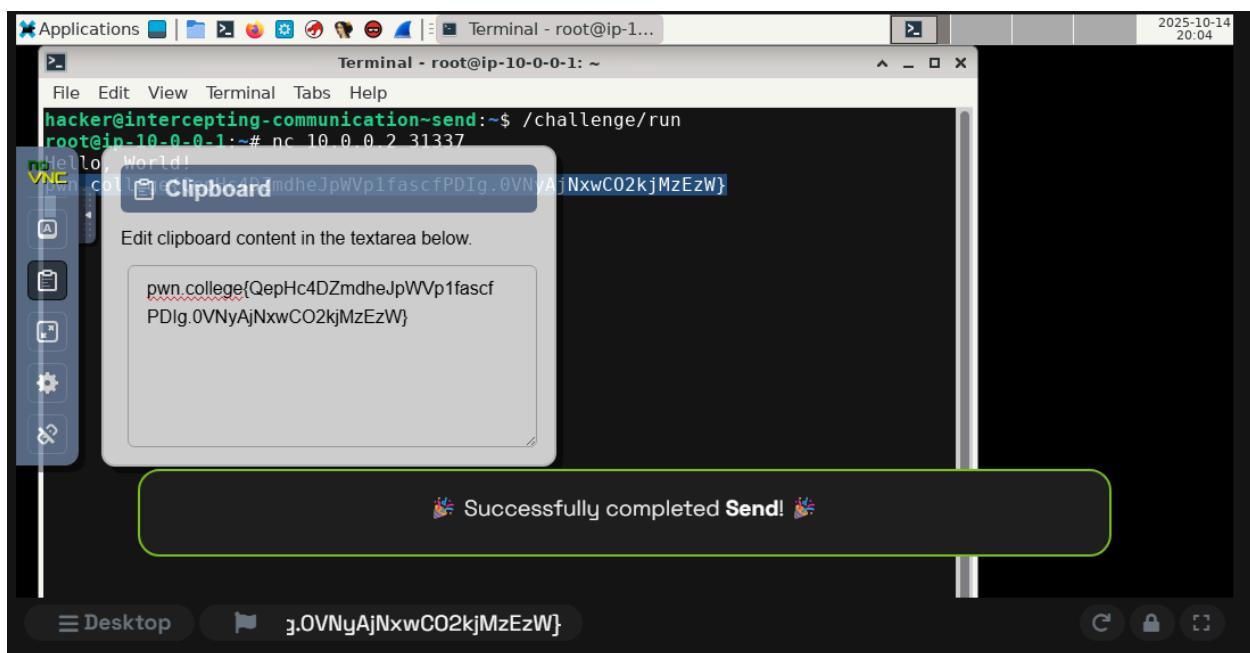
A screenshot of a terminal window titled "Terminal - root@ip-10-0-0-1: ~". The window shows the same command and output as the previous screenshot. A clipboard notification is overlaid on the screen, displaying the flag "pwn.college{E3xBnd5bBBAh5ueJULGMC4024Ec.QX5UzMzwCO2kjMzEzW}" and the message "Clipboard". Below the clipboard, a success message in a rounded rectangle says "Successfully completed Connect!" with a small icon. The terminal is part of a desktop environment with a dock at the bottom.

- Send

A screenshot of a terminal window titled "Terminal - root@ip-10-0-0-1: ~". The window shows the following command and its output:

```
hacker@intercepting-communication-send:~$ /challenge/run
root@ip-10-0-0-1:~# nc 10.0.0.2 31337
Hello, World!
pwn.college{QepHc4DZmdheJpWVp1fascfPDIg.0VNyAjNwxCO2kjMzEzW}
```

The terminal is running on a Kali Linux desktop environment, as indicated by the desktop icons in the dock.



- Shutdown

A screenshot of a terminal window titled "Terminal - root@ip-10-0-0-1: ~". The window shows the following command being run:

```
hacker@intercepting-communication-shutdown:~$ /challenge/run
root@ip-10-0-0-1:~# nc 10.0.0.2 31337
^C
root@ip-10-0-0-1:~# nc -N 10.0.0.2 31337
pwn.college{86occYHUwGzG_NYA5BEfG2ioQtM.0lNyAjNxwCO2kjMzEzW}
```

A screenshot of a terminal window titled "Terminal - root@ip-10-0-0-1: ~". The window shows the same command being run:

```
hacker@intercepting-communication-shutdown:~$ /challenge/run
root@ip-10-0-0-1:~# nc 10.0.0.2 31337
root@ip-10-0-0-1:~# nc -N 10.0.0.2 31337
pwn.college{86occYHUwGzG_NYA5BEfG2ioQtM.0lNyAjNxwCO2kjMzEzW}
```

A clipboard overlay is visible, containing the same command and output. A green notification bar at the bottom of the screen says "Successfully completed Shutdown!".

- Listen

```
Terminal - root@ip-10-0-0-1: ~
File Edit View Terminal Tabs Help
hacker@intercepting-communication-listen:~$ /challenge/run
root@ip-10-0-0-1:~# nc -l -p 31337
nc: invalid option -- '1'
usage: nc [-46CDdfklNnrStUuvZz] [-I length] [-i interval] [-M ttl]
          [-m minttl] [-O length] [-P proxy_username] [-p source_port]
          [-q seconds] [-s sourceaddr] [-T keyword] [-V rtable] [-W recvlimit]
          [-w timeout] [-X proxy_protocol] [-x proxy_address[:port]]
          [destination] [port]
root@ip-10-0-0-1:~# nc -l -p 31337
pwn.college{oS4uKbsXQ9eMh5nxFl-RwbwV9V4.QXwYzMzwC02kjMzEzW}
root@ip-10-0-0-1:~#
```

```
Terminal - root@ip-10-0-0-1: ~
File Edit View Terminal Tabs Help
hacker@intercepting-communication-listen:~$ /challenge/run
root@ip-10-0-0-1:~# nc -l -p 31337
nc: invalid option -- '1'
usage: nc [-46CDdfklNnrStUuvZz] [-I length] [-i interval] [-M ttl]
          [-m minttl] [-O length] [-P proxy_username] [-p source_port]
          [-q seconds] [-s sourceaddr] [-T keyword] [-V rtable] [-W recvlimit]
          [-w timeout] [-X proxy_protocol] [-x proxy_address[:port]]
          [destination] [port]
Edit clipboard content in the textarea below.
pwn.college{oS4uKbsXQ9eMh5nxFl-RwbwV9V4.QXwYzMzwC02kjMzEzW}
root@ip-10-0-0-1:~#
```

VNC

Clipboard

Successfully completed Listen!

- Scan 1

```
Terminal - root@ip-10-0-0-1: ~
File Edit View Terminal Tabs Help
[+] Applications Terminal - root@ip-10-0-0-1: ~
root@intercepting-communication~scan-1:~$ /challenge/run
root@ip-10-0-0-1:~# nmap -p 31337 10.0.0.0/24 -Pn --open
Starting Nmap 7.97 ( https://nmap.org ) at 2025-10-14 22:03 +0000
Nmap scan report for 10.0.0.224
Host is up (0.00013s latency).

PORT      STATE SERVICE
31337/tcp open  Elite
MAC Address: BA:6C:6F:BE:81:88 (Unknown)

Nmap done: 256 IP addresses (2 hosts up) scanned in 108.27 seconds
root@ip-10-0-0-1:~# nc -nv 10.0.0.224 31337
Connection to 10.0.0.224 31337 port [tcp/*] succeeded!
pwn.college{omNhbNXofhT5HTYJAAoSDz7hNL3.QXxYzMzwC02kjMzEzW}
```

```
Terminal - root@ip-10-0-0-1: ~
File Edit View Terminal Tabs Help
[+] Applications Terminal - root@ip-10-0-0-1: ~
VNC Edit Clipboard https://nmap.org ) at 2025-10-14 22:03 +0000
root@intercepting-communication~scan-1:~$ /challenge/run
root@ip-10-0-0-1:~# nmap -p 31337 10.0.0.0/24 -Pn --open
Starting Nmap 7.97 ( https://nmap.org ) at 2025-10-14 22:03 +0000
Nmap scan report for 10.0.0.224
Host is up (0.00013s latency).
Edit clipboard content in the textarea below.
PORT      STATE SERVICE
31337/tcp open  Elite
MAC Address: hNL3.QXxYzMzwC02kjMzEzW (known)

Nmap done: 256 IP addresses (2 hosts up) scanned in 108.27 seconds
root@ip-10-0-0-1:~# nc -nv 10.0.0.224 31337
Connection to 10.0.0.224 31337 port [tcp/*] succeeded!
pwn.college{omNhbNXofhT5HTYJAAoSDz7hNL3.QXxYzMzwC02kjMzEzW}
```

Successfully completed Scan 1!

- Scan 2

```
hacker@intercepting-communication~scan-2:~$ /challenge/run
root@ip-10-0-0-1:~# nmap -p 31337 10.0.0.0/16 -n -Pn --open -T5 --min-rate 5000 --max-retries 0 -oG - | grep '/open/'
-bash: child setpgid (10 to 167): Operation not permitted
Host: 10.0.170.2 ()      Ports: 31337/open/tcp//Elite///
root@ip-10-0-0-1:~# nc -nv 10.0.170.2 31337
Connection to 10.0.170.2 31337 port [tcp/*] succeeded!
pwn.college{E1CaM29VjbOPtwCo5rp_U6Goagj.QXyYzMzwC02kjMzEzw}
```



```
hacker@intercepting-communication~scan-2:~$ /challenge/run
root@ip-10-0-0-1:~# nmap -p 31337 10.0.0.0/16 -n -Pn --open -T5 --min-rate 5000 --max-retries 0 -oG - | grep '/open/'
-bash: child setpgid (10 to 167): Operation not permitted
Host: 10.0.170.2 ()      Ports: 31337/open/tcp//Elite///
root@ip-10-0-0-1:~# nc -nv 10.0.170.2 31337
Connection to 10.0.170.2 31337 port [tcp/*] succeeded!
pwn.college{E1CaM29VjbOPtwCo5rp_U6Goagj.QXyYzMzwC02kjMzEzw}
```

🎉 Successfully completed Scan 2! 🎉

