Evidencias:

Instalar iptables


```
root@kali: /home/kali

File  Actions  Edit  View  Help

┌──(kali㉿kali)-[~]
└─$ sudo apt-get install iptables
[sudo] password for kali:
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
iptables is already the newest version (1.8.7-1).
iptables set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 318 not upgraded.
```

Instalar y abrir un server ssh


```
❯ apt list openssh-server
Listando... Hecho
openssh-server/rolling,now 1:8.4p1-5 amd64 [instalado, automático]
❯ sudo systemctl enable ssh.service
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable ssh
Use of uninitialized value $service in hash element at /usr/sbin/update-rc.d line 26, <DATA> line 45.
insserv: warning: current start runlevel(s) (empty) of script `ssh' overrides LSB defaults (2 3 4 5).
insserv: warning: current stop runlevel(s) (2 3 4 5) of script `ssh' overrides LSB defaults (empty).
Use of uninitialized value $service in hash element at /usr/sbin/update-rc.d line 26, <DATA> line 45.
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
❯ sudo systemctl start ssh.service
❯ sudo systemctl stop ssh.service

❯ sudo systemctl status ssh.service
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: disabled)
     Active: inactive (dead) since Mon 2021-08-30 17:00:48 CDT; 22s ago
       Docs: man:sshd(8)
             man:sshd_config(5)
    Process: 53105 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Process: 53106 ExecStart=/usr/sbin/sshd -D $SSHD_OPTS (code=exited, status=0/SUCCESS)
   Main PID: 53106 (code=exited, status=0/SUCCESS)
        CPU: 18ms

ago 30 17:00:20 H4ckschool systemd[1]: Starting OpenBSD Secure Shell server...
ago 30 17:00:20 H4ckschool sshd[53106]: Server listening on 0.0.0.0 port 22.
ago 30 17:00:20 H4ckschool sshd[53106]: Server listening on :: port 22.
ago 30 17:00:20 H4ckschool systemd[1]: Started OpenBSD Secure Shell server.
ago 30 17:00:48 H4ckschool sshd[53106]: Received signal 15; terminating.
ago 30 17:00:48 H4ckschool systemd[1]: Stopping OpenBSD Secure Shell server...
ago 30 17:00:48 H4ckschool systemd[1]: ssh.service: Succeeded.
ago 30 17:00:48 H4ckschool systemd[1]: Stopped OpenBSD Secure Shell server.
❯ sudo nmap -sTU -O IP-address-Here
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-30 17:01 CDT
Failed to resolve "IP-address-Here".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.32 seconds
❯ sudo nmap -sTU -O 10.0.2.15
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-30 17:02 CDT
Nmap scan report for 10.0.2.15
Host is up (0.0074s latency).
Not shown: 1999 closed ports
PORT     STATE SERVICE
500/udp  open  isakmp
Too many fingerprints match this host to give specific OS details
Network Distance: 0 hops

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 2.30 seconds
```
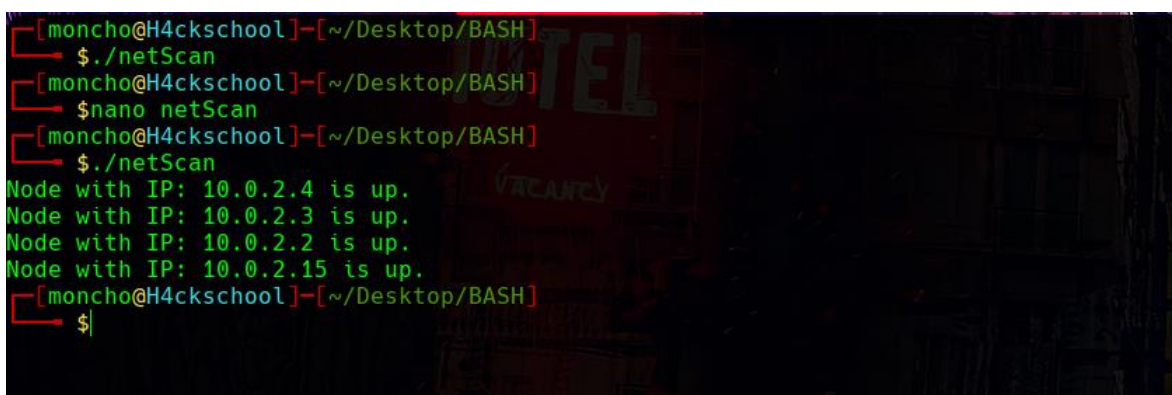
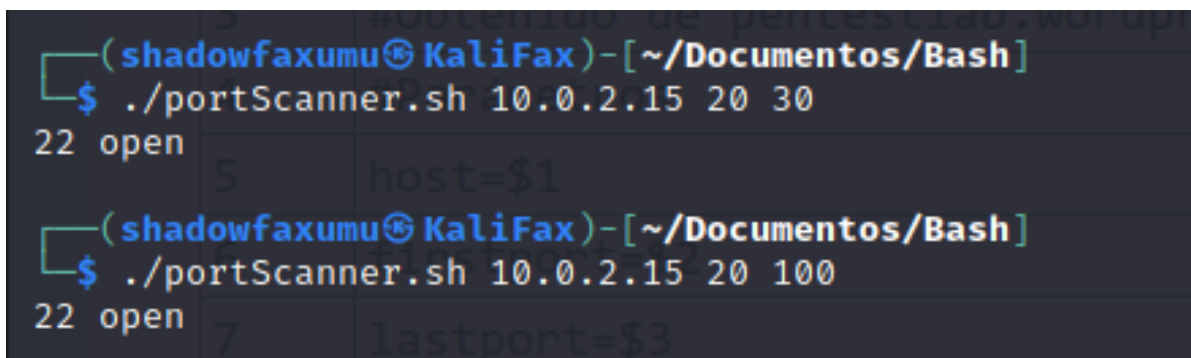## OSDetect

```
> ./osdetect
Linux
> whoami
moncho

  ⚠  ▶  📁 ~/Desktop/BASH  ▶  ✔       |
```

NetScan

```
┌─[moncho@H4ckschool]─[~/Desktop/BASH]
└──➤ $./netScan
┌─[moncho@H4ckschool]─[~/Desktop/BASH]
└──➤ $nano netScan
┌─[moncho@H4ckschool]─[~/Desktop/BASH]
└──➤ $./netScan
Node with IP: 10.0.2.4 is up.
Node with IP: 10.0.2.3 is up.
Node with IP: 10.0.2.2 is up.
Node with IP: 10.0.2.15 is up.
┌─[moncho@H4ckschool]─[~/Desktop/BASH]
└──➤ $|
```

PortScanner

```
┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ ./portScanner.sh 10.0.2.15 20 30
22 open

┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ ./portScanner.sh 10.0.2.15 20 100
22 open
```

Evidencia del código

```
> ./scriptBash
> ls
arch.txt  cmds.txt  getlocal  getlocal.save  netScan  netScan.sh  osdetect  portScanner  portScanner.sh  scriptBash  scriptBash.txt
> cat scriptBash.txt

      File: scriptBash.txt

   1   El sistema operativo es: Linux
   2   22 open
   3   Node with IP: 10.0.2.15 is up.
   4   Node with IP: 10.0.2.4 is up.
   5   Node with IP: 10.0.2.3 is up.
   6   Node with IP: 10.0.2.2 is up.
```

```
~/Desktop/BASH ✔  |
```

```
┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ cat uwubash.sh
#!/bin/bash

OSTYPE=$(./osdetect.sh)
NETSCAN=$(./netScan.sh)
PORTSCAN=$(./portScanner.sh)
echo $OSTYPE >> hola.txt
echo $NETSCAN >> hola.txt
echo $PORTSCAN >> hola.txt

┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ ./uwubash.sh

┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ cat hola.txt
Tu sistema operativo es: Linux
Node with IP: 192.168.100.1 is up.
22 open

┌──(shadowfaxumu㉿KaliFax)-[~/Documentos/Bash]
└─$ 
```