Ping Sweeper



Ping command: ping [IP ADDRESS] [-c number](for specified number of pings)



My IP Address: (I will be using this IP to find all devices in my network)

```
Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . : fe80::7212:59ed:af7c:317e%8
IPv4 Address . . . . . : 192.168.1.105
Subnet Mask . . . . . . : 255.255.255.0
Default Gateway . . . . : 192.168.1.1
```



Pinging my actual IP

```
[wahaj@parrot]-[/opt]
  - $ping 192.168.1.105
PING 192.168.1.105 (192.168.1.105) 56(84) bytes of data.
64 bytes from 192.168.1.105: icmp seq=1 ttl=127 time=7.86 ms
64 bytes from 192.168.1.105: icmp seq=2 ttl=127 time=2.52 ms
64 bytes from 192.168.1.105: icmp seq=3 ttl=127 time=1.60 ms
64 bytes from 192.168.1.105: icmp seq=4 ttl=127 time=11.2 ms
64 bytes from 192.168.1.105: icmp seq=5 ttl=127 time=15.6 ms
64 bytes from 192.168.1.105: icmp seq=6 ttl=127 time=2.28 ms
64 bytes from 192.168.1.105: icmp seq=7 ttl=127 time=2.03 ms
64 bytes from 192.168.1.105: icmp seq=8 ttl=127 time=2.04 ms
64 bytes from 192.168.1.105: icmp seq=9 ttl=127 time=3.13 ms
`C
--- 192.168.1.105 ping statistics ---
9 packets transmitted, 9 received, 0% packet loss, time 8204ms
rtt min/avg/max/mdev = 1.597/5.357/15.551/4.749 ms
```

W

Putting the command in a file so our result is stored and then we can use the results to sweep the network



using grep to pick up specific data

```
[wahaj@parrot]=[~/Desktop]
    $cat ip.txt | grep "64 bytes"
64 bytes from 192.168.1.105: icmp_seq=1 ttl=127 time=7.78 ms
```



OUR PURPOSE RIGHT HERE IS TO PING EVERY SUBNET STARTING FROM .1 TO .255 AND CHECK IF THERE EXISTS A CONNECTION, THIS IS PING SWEEPING

Shortlisting the data even more with the cut command cut -d[delimiter] string -f[field] count
[By the below command we ask the terminal to grep the line with 64 bytes and extract only the field which has the 4th space]

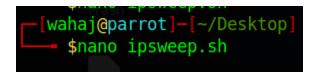
W

Finally with the translate command we can remove the extra colon tr -d[delimiter] string

Writing The Script



Create the file





What this code does is it says for ip in sequence 1 till 254 do ping \$1 (first command line argument).\$ip(the ip generated by loop) grab the line and extract the ip and done.

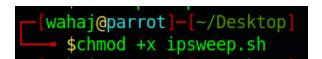
& makes the loop run in parallel

```
GNU nano 5.4
#!/bin/bash

for ip in `seq 1 254`; do
ping $1.$ip -c 1 | grep "64 bytes" | cut -d " " -f 4 | tr -d ":" &
done
wahaj's Home
```



Make the script executable





Edit the script to run only with an IP

```
#!/bin/bash

if [ $1 == "" ]
then
echo "You forgot an IP Address.";
echo "Syntax: ./ipsweep.sh [IP ADDRESS]";
else

for ip in 'seq 1 254'; do
ping $1.\$ip = c 1 | grep "64 bytes" | cut -d " " -f 4 | tr -d ":" &
done
fil
```

W

Run the Script

```
[wahaj@parrot]-[~/Desktop]
$./ipsweep.sh 192.168.1
192.168.1.1
192.168.1.105
192.168.1.108
192.168.1.101
```

Store and Get the results in the file

```
[wahaj@parrot]-[~/Desktop]
$./ipsweep.sh 192.168.1 >ips.txt

[wahaj@parrot]-[~/Desktop]
$cat ips.txt

192.168.1.1

192.168.1.101

192.168.1.108

192.168.1.105

192.168.1.102
```

one liner with nmap

```
[1] 9296
[2] F9297 E.license
[3] 9298
[4] 9299
[5] 9300
```

W

nmap results

```
[wahaj@parrot]—[~/Desktop]
     $Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-14 07:54 EST
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-14 07:54 EST
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-14 07:54 EST
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-14 07:54 EST
Starting Nmap 7.92 ( https://nmap.org ) at 2023-01-14 07:54 EST
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.33 seconds
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.44 seconds
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.56 seconds
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.67 seconds
Nmap scan report for 192.168.1.1
Host is up (0.022s latency).
Not shown: 996 filtered tcp ports (no-response)
PORT .
        STATE SERVICE
22/tcp
        open ssh
       open domain
53/tcp
80/tcp
        open http
1900/tcp open upnp
Nmap done: 1 IP address (1 host up) scanned in 5.80 seconds
,Ċ
[1]
     Done
                              nmap $ip
[2]
     Done
                              nmap $ip
[3]
     Done
                              nmap $ip
     Done
                             nmap $ip
[5]+ Done
                             nmap $ip
```