

```
(paul@vbox)-[~]
ip a
lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
    valid_lft forever preferred_lft forever
eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 08:00:27:48:89:61 brd ff:ff:ff:ff:ff:ff
inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
    valid_lft 62239sec preferred_lft 62239sec
inet6 fd00::667f:1a70:96db:4431/64 scope global temporary dynamic
    valid_lft 85865sec preferred_lft 13865sec
inet6 fd00::a00:27ff:fe48:8961/64 scope global dynamic mngtmpaddr noprefixroute
    valid_lft 85865sec preferred_lft 13865sec
inet6 fe80::a00:27ff:fe48:8961/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
tun0: <POINTOPOINT,MULTICAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UNKNOWN group default qlen 500
link/none
inet 10.17.12.206/17 scope global tun0
    valid_lft forever preferred_lft forever
inet6 fe80::6cad:ab7a:91a0:3f6d/64 scope link stable-privacy proto kernel_ll
    valid_lft forever preferred_lft forever

(paul@vbox)-[~]
ifconfig
0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe48:8961 prefixlen 64 scopeid 0x20<link>
    inet6 fd00::667f:1a70:96db:4431 prefixlen 64 scopeid 0x0<global>
    inet6 fd00::a00:27ff:fe48:8961 prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:48:89:61 txqueuelen 1000 (Ethernet)
    RX packets 195718 bytes 176255565 (168.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 107633 bytes 24022279 (22.9 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 17 bytes 1602 (1.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 17 bytes 1602 (1.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
(paul@vbox)-[~]  
$ sudo nmap -sS 192.168.1.0/24  
[sudo] password for paul:  
sorry, try again.  
[sudo] password for paul:  
sorry, try again.  
[sudo] password for paul:  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-08-04 20:59 IST  
Nmap scan report for 192.168.1.0  
Host is up (0.0015s latency).  
All 1000 scanned ports on 192.168.1.0 are in ignored states.  
Not shown: 502 filtered tcp ports (no-response), 498 filtered tcp ports (net-unreach)  
  
Nmap scan report for 192.168.1.1  
Host is up (0.0022s latency).  
All 1000 scanned ports on 192.168.1.1 are in ignored states.  
Not shown: 509 filtered tcp ports (net-unreach), 491 filtered tcp ports (no-response)  
  
Nmap scan report for 192.168.1.2  
Host is up (0.0016s latency).  
All 1000 scanned ports on 192.168.1.2 are in ignored states.  
Not shown: 514 filtered tcp ports (net-unreach), 486 filtered tcp ports (no-response)  
  
Nmap scan report for 192.168.1.3  
Host is up (0.0020s latency).  
All 1000 scanned ports on 192.168.1.3 are in ignored states.  
Not shown: 514 filtered tcp ports (no-response), 486 filtered tcp ports (net-unreach)  
  
Nmap scan report for 192.168.1.4  
Host is up (0.0018s latency).  
All 1000 scanned ports on 192.168.1.4 are in ignored states.  
Not shown: 509 filtered tcp ports (no-response), 491 filtered tcp ports (net-unreach)  
  
Nmap scan report for 192.168.1.5  
Host is up (0.0020s latency).  
All 1000 scanned ports on 192.168.1.5 are in ignored states.  
Not shown: 520 filtered tcp ports (no-response), 480 filtered tcp ports (net-unreach)  
  
Nmap scan report for 192.168.1.6  
Host is up (0.0021s latency).  
All 1000 scanned ports on 192.168.1.6 are in ignored states.  
Not shown: 509 filtered tcp ports (no-response), 491 filtered tcp ports (net-unreach)
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```
-(paul@vbox)-[~]
$ sudo nmap -sS 192.168.1.0/24 -h
nmap 7.94SVN ( https://nmap.org )
Usage: nmap [Scan Type(s)] [Options] {target specification}
TARGET SPECIFICATION:
  Can pass hostnames, IP addresses, networks, etc.
  Ex: scanme.nmap.org, microsoft.com/24, 192.168.0.1; 10.0.0-255.1-254
  -iL <inputfilename>: Input from list of hosts/networks
  -iR <num hosts>: Choose random targets
  --exclude <host1[,host2][,host3], ...>: Exclude hosts/networks
  --excludefile <exclude_file>: Exclude list from file
HOST DISCOVERY:
  -sL: List Scan - simply list targets to scan
  -sn: Ping Scan - disable port scan
  -Pn: Treat all hosts as online -- skip host discovery
  -PS/PA/PU/PY[portlist]: TCP SYN/ACK, UDP or SCTP discovery to given ports
  -PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes
  -PO[protocol list]: IP Protocol Ping
  -n/-R: Never do DNS resolution/Always resolve [default: sometimes]
  --dns-servers <serv1[,serv2], ...>: Specify custom DNS servers
  --system-dns: Use OS's DNS resolver
  --traceroute: Trace hop path to each host
SCAN TECHNIQUES:
  -sS/sT/sA/sW/sM: TCP SYN/Connect()/ACK/Window/Maimon scans
  -sU: UDP Scan
  -sN/sF/sX: TCP Null, FIN, and Xmas scans
  --scanflags <flags>: Customize TCP scan flags
  -sI <zombie host[:probeport]>: Idle scan
  -sY/sZ: SCTP INIT/COOKIE-ECHO scans
  -sO: IP protocol scan
  -b <FTP relay host>: FTP bounce scan
PORT SPECIFICATION AND SCAN ORDER:
  -p <port ranges>: Only scan specified ports
    Ex: -p22; -p1-65535; -p U:53,111,137,T:21-25,80,139,8080,S:9
  --exclude-ports <port ranges>: Exclude the specified ports from scanning
  -F: Fast mode - Scan fewer ports than the default scan
  -r: Scan ports sequentially - don't randomize
  --top-ports <number>: Scan <number> most common ports
  --port-ratio <ratio>: Scan ports more common than <ratio>
SERVICE/VERSION DETECTION:
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—(paul@vbox)-[~]

-\$ sudo apt update

gn:1 http://http.kali.org/kali kali-rolling InRelease

gn:1 http://http.kali.org/kali kali-rolling InRelease

gn:1 http://http.kali.org/kali kali-rolling InRelease

rr:1 http://http.kali.org/kali kali-rolling InRelease

Temporary failure resolving 'http.kali.org'

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

096 packages can be upgraded. Run 'apt list --upgradable' to see them.

: Failed to fetch http://http.kali.org/kali/dists/kali-rolling/InRelease Temporary failure resolving 'http.kali.org'

: Some index files failed to download. They have been ignored, or old ones used instead.

