

1.

```
(kali㉿kali)-[~]  
$ nmap --version  
Nmap version 7.95 ( https://nmap.org )  
Platform: x86_64-pc-linux-gnu  
Compiled with: liblua-5.4.7 openssl-3.5.0 libssh2-1.11.1 libz-1.3.1 libpcap-1.10.5 nmap-libdnet-1.12 ipv6  
Compiled without:  
Available nsock engines: epoll poll select
```

2.

```
(kali㉿kali)-[~]  
$ ip a  
1: 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  
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000  
    link/ether 08:00:27:b4:a1:05 brd ff:ff:ff:ff:ff:ff  
    inet 10.145.94.137/24 brd 10.145.94.255 scope global dynamic noprefixroute eth0  
        valid_lft 2839sec preferred_lft 2839sec  
    inet6 2402:3a80:4171:3eb7:9d35:fd7f:6b8d:b105/64 scope global dynamic noprefixroute  
        valid_lft 7102sec preferred_lft 7102sec  
    inet6 fe80::65c:b358:4d7d:1398/64 scope link noprefixroute  
        valid_lft forever preferred_lft forever
```

3.

```
(kali㉿kali)-[~]  
$ nmap -sS 10.145.94.137/24  
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-04 07:06 EDT  
Nmap scan report for 10.145.94.21  
Host is up (0.0063s latency).  
Not shown: 999 closed tcp ports (reset)  
PORT      STATE SERVICE  
53/tcp    open  domain  
MAC Address: EE:97:5F:33:D8:FB (Unknown)  
  
Nmap scan report for 10.145.94.123  
Host is up (0.0025s latency).  
All 1000 scanned ports on 10.145.94.123 are in ignored states.  
Not shown: 1000 filtered tcp ports (no-response)  
MAC Address: 48:E7:DA:6C:E5:21 (AzureWave Technology)  
  
Nmap scan report for 10.145.94.137  
Host is up (0.0000060s latency).  
All 1000 scanned ports on 10.145.94.137 are in ignored states.  
Not shown: 1000 closed tcp ports (reset)  
  
Nmap done: 256 IP addresses (3 hosts up) scanned in 10.95 seconds
```