Step1:

```
File Actions Edit View Help
┌──(     ⊛kali)-[~]
└─$ nmap --version
Nmap version 7.94SVN ( https://nmap.org )
Platform: x86_64-pc-linux-gnu
Compiled with: liblua-5.4.6 openssl-3.4.1 libssh2-1.11.1 libz-1.3.1 libpcre2-10.42 libpcap-1.10.5 nmap-libdnet-1.12
 ipv6
Compiled without:
Available nsock engines: epoll poll select
```

Step2:

```
┌──(     ⊛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 08:00:27:6e:13:6e brd ff:ff:ff:ff:ff:ff
    inet                  brd                  scope global dynamic noprefixroute eth0
       valid_lft 3531sec preferred_lft 3531sec
    inet6 2401:4900:3602:4349:f583:f60b:eec2:b7ce/64 scope global dynamic noprefixroute
       valid_lft 7132sec preferred_lft 7132sec
    inet6 fe80::376a:ceca:4608:8183/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
```

Step3:

```
┌──(     ⊛kali)-[~]
└─$ nmap -sS 192.168.162.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-06-23 09:11 EDT
Nmap scan report for 192.168.162.32
Host is up (0.0045s latency).
Not shown: 999 closed tcp ports (reset)
PORT   STATE SERVICE
53/tcp open  domain
MAC Address:                  (Unknown)

Nmap scan report for 192.168.162.52
Host is up (0.00081s latency).
All 1000 scanned ports on 192.168.162.52 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address:                  (Unknown)

Nmap scan report for 192.168.162.30
Host is up (0.000014s latency).
Not shown: 998 closed tcp ports (reset)
PORT   STATE SERVICE
22/tcp open  ssh
80/tcp open  http

Nmap done: 256 IP addresses (3 hosts up) scanned in 11.25 seconds
```

Step4:

```
┌──(     ⊕kali)-[~]
└─$ nmap -sS 192.168.162.0/24 -oN scan_results.txt
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-06-23 09:12 EDT
Nmap scan report for 192.168.162.32
Host is up (0.0065s latency).
Not shown: 999 closed tcp ports (reset)
PORT    STATE SERVICE
53/tcp open  domain
MAC Address: ██████████████ (Unknown)

Nmap scan report for 192.168.162.52
Host is up (0.0013s latency).
All 1000 scanned ports on 192.168.162.52 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: ██████████████ (Unknown)

Nmap scan report for 192.168.162.30
Host is up (0.000013s latency).
Not shown: 998 closed tcp ports (reset)
PORT    STATE SERVICE
22/tcp open  ssh
80/tcp open  http

Nmap done: 256 IP addresses (3 hosts up) scanned in 9.11 seconds
```

Step5:

```
File  Actions  Edit  View  Help
┌──(     ⊕kali)-[~]
└─$ cat scan_results.txt
# Nmap 7.94SVN scan initiated Mon Jun 23 09:12:16 2025 as: /usr/lib/nmap/nmap --privileged -sS -oN scan_results.txt
 192.168.162.0/24
Nmap scan report for ██████████████
Host is up (0.0065s latency).
Not shown: 999 closed tcp ports (reset)
PORT    STATE SERVICE
53/tcp open  domain
MAC Address: ██████████████ (Unknown)

Nmap scan report for ██████████████
Host is up (0.0013s latency).
All 1000 scanned ports on ██████████████ are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: ██████████████ (Unknown)

Nmap scan report for ██████████████
Host is up (0.000013s latency).
Not shown: 998 closed tcp ports (reset)
PORT    STATE SERVICE
22/tcp open  ssh
80/tcp open  http

# Nmap done at Mon Jun 23 09:12:25 2025 -- 256 IP addresses (3 hosts up) scanned in 9.11 seconds
```