

NMAP

nmap

- stands for network mapper
- d for scanning about open ports and vulnerabilities use
- discover live hosts on a network
- detect open ports on a host
- identify services and versions running on these ports
- performs OS detection
- run vulnerability scripts (via the nmap scripting engine)

Examples

```
nmap 192.168.1.1          # Scan a single IP
nmap 192.168.1.0/24      # Scan an entire subnet
nmap -p 80,443 example.com # Scan specific ports
nmap -sV example.com     # Service version detection
nmap -O 192.168.1.1      # OS detection
nmap -A 192.168.1.1      # Aggressive scan (includes OS, version, script, traceroute)
```

Useful Options

Option	Description
-ss	Stealth (SYN) scan
-sT	TCP connect scan
-sU	UDP scan
-sV	Detect service versions
-O	OS detection
-A	Aggressive scan
-p	Specify ports
-T4	Faster execution (0-5 scale)
-Pn	No host discovery (treat all as online)
--script	Use a specific NSE script or category

Iptables -L → command is used to list the current rules in your system's firewall managed by the iptables. Use -n to show the numerical IPs and Ports (don't resolve DNS/service Names)

nmap -hh	Show the help menu
man nmap	Show the manual page to the nmap
nmap www.google.com	Scan top 1000 ports that exists on the Record
nmap -sT -sU <target>	Scan the first 1000 TCU and UDP Ports
nmap -sT --top-ports 2000 <target>	Scan the first top 2000 ports
nmap -p 80 <target>	Scan a specific port, like 80 on the example
nmap -p 80, 44, 11 <target>	Scan a specific number of ports
nmap -p 1-10 <target>	Scan range of ports
nmap -A <target>	Is a powerful and aggressive scan option. Which include OS detection, version detection, script scanning, traceroute. If return tcprapped: means nmap does not know the service type of the port.
nmap -iL file.txt	Scan more than one target, that exists on a text file
Nmap -sn <target>	Known as no port scan, used to perform a ping scan. That tells nmap to only discover hosts that are up without scanning for open ports. It sends ICMP echo requests (like ping), TCP SYN packets to port 443, and sometimes ARP requests (on local networks). Determine which hosts are online