## **nmap Cheat Sheet**



## Installation

sudo apt install nmap

Basic usage	
Command	Description
nmap <options> <target></target></options>	Scan a target
nmap -h	Show help

larget specification	
Command Descripti	
nmap <target></target>	Scan a single targ

nmap <target1> <target2> Scan multiple targets

nmap 192.168.1.0/24 Scan a network
nmap -iL <file> Read targets from a file

## Host discovery

-sU

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Flag	Description
-sn	Ping scan (disable port scan)
- Pn	Treat all hosts as online (skip ICMP Echo requests)
-PE	ICMP echo request (ping)
-n	Disable DNS resolution

Scan techniques	
Flag	Description
-sS	TCP SYN scan (requires root)
-sT	TCP connect scan (less invasive)
-sA	TCP ACK scan

**UDP** scan

Port specification	on
Flag	Description
-p <port></port>	Scan a single port
-p <port1,2></port1,2>	Scan multiple ports
-p <port1-5></port1-5>	Scan a range of ports
- p -	Scan all ports
-F	Fast mode (top 100 ports)
top-ports <n></n>	Scan the top n common ports

OS / service / version detection	
Flag Description	
-0	Enable OS detection
-sV	Probe open ports to determine service/version info
- A	Enable OS detection, version detection, and scripts

Script scanning	
Flag	Description
-sC	Scan with the default set of scripts
script= <name></name>	Scan with the specified script(s)

Performance	
Flag	Description
initial-rtt-timeout <time></time>	Set initial RTT timeout
max-rtt-timeout <time></time>	Set max RTT timeout
max-retries <tries></tries>	Set max retries
min-rate <number></number>	Set min packet rate

Timing templates	
-lag	Description
-Т0	Paranoid (IDS evasion)
-T1	Sneaky (IDS evasion)
-T2	Polite (slow)
-Т3	Normal (default)
-T4	Aggressive (fast)
-T5	Insane (very fast)

Output	
Command / flag	Description
-oN <file></file>	Write normal output to a file
-oG <file></file>	Write grepable output to a file
-oX <file></file>	Write XML output to a file
-oA <basename></basename>	Write output in all 3 formats
- V	Increase verbosity
packet-trace	Show all packets sent and received
reason	Show the reason for the port state
stats-every <n></n>	Show scan statistics every n seconds

Nmap examples	
Command	Description
nmap -sn 192.168.1.1/24	Discover hosts on a network
<pre>sudo nmap -sS <target></target></pre>	TCP SYN scan
<pre>sudo nmap <target> -p 80 -sVscript vuln</target></pre>	Scan for vulnerabilities on port 80