

November 15, 2024









## **Scanning Options**

Option	What It Does	Example Command
10.10.10.0/24	Specifies the target network range.	nmap 10.10.10.0/24
-sn	Skips port scanning.	nmap -sn 10.10.10.0/24
-Pn	Disables ICMP Echo Requests (no ping).	nmap -Pn 10.10.10.0/24
-n	Avoids DNS resolution.	nmap -n 10.10.10.0/24
-PE	Ping scan using ICMP Echo Requests.	nmap -PE 10.10.10.0/24
packet-trace	Shows detailed packet sending/receiving logs.	nmappacket-trace 10.10.10.0/24
reason	Displays the reason for a result.	nmapreason 10.10.10.0/24
disable-arp-ping	Disables ARP Ping.	nmapdisable-arp- ping 10.10.10.0/24
top-ports= <num></num>	Scans the most common ports.	nmaptop-ports=100 10.10.10.0/24
- p -	Scans all ports.	nmap -p- 10.10.10.0/24
-p22-110	Scans ports between 22 and 110.	nmap -p22-110 10.10.10.0/24

Scans only ports 22 and 25.	nmap -p22,25 10.10.10.0/24
Scans top 100 most common ports.	nmap -F 10.10.10.0/24
Performs a TCP SYN scan.	nmap -sS 10.10.10.0/24
Conducts a TCP ACK scan.	nmap -sA 10.10.10.0/24
Runs a UDP scan.	nmap -sU 10.10.10.0/24
Scans service versions.	nmap -sV 10.10.10.0/24
Uses default scripts for scanning.	nmap -sC 10.10.10.0/24
Runs specified scripts during the scan.	nmapscript http- title 10.10.10.0/24
Identifies the target's operating system.	nmap -0 10.10.10.0/24
OS, service, and traceroute detection.	nmap -A 10.10.10.0/24
Uses 5 random decoys for the scan.	nmap -D RND:5 10.10.10.0/24
Specifies the network interface for scanning.	nmap -e eth0 10.10.10.0/24
Sets the source IP address.	nmap -S 10.10.10.200 10.10.10.0/24
Specifies the source port.	nmap -g 80 10.10.10.0/24
Uses a custom DNS server for resolution.	nmapdns-server 8.8.8.8 10.10.10.0/24
	Scans top 100 most common ports.  Performs a TCP SYN scan.  Conducts a TCP ACK scan.  Runs a UDP scan.  Scans service versions.  Uses default scripts for scanning.  Runs specified scripts during the scan.  Identifies the target's operating system.  OS, service, and traceroute detection.  Uses 5 random decoys for the scan.  Specifies the network interface for scanning.  Sets the source IP address.  Specifies the source port.  Uses a custom DNS server

## **Output Options**

Option	What It Does	Example Command
-oA filename	Saves results in all formats under the given filename.	nmap -oA scan_results 10.10.10.0/24
-oN filename	Saves results in a normal text format.	nmap -oN scan.txt 10.10.10.0/24
-oG filename	Saves results in a grepable format.	nmap -oG scan.grep 10.10.10.0/24
-oX filename	Saves results in XML format.	nmap -oX scan.xml 10.10.10.0/24

## **Performance Options**

Option	What It Does	Example Command
max-retries <num></num>	Sets the number of retries for failed scans.	nmapmax-retries 3 10.10.10.0/24
stats-every=5s	Displays scan progress every 5 seconds.	nmapstats-every=5s 10.10.10.0/24
-v/-vv	Increases verbosity during the scan.	nmap -vv 10.10.10.0/24
initial-rtt-timeout 50ms	Sets the initial round-trip timeout value.	nmapinitial-rtt- timeout 50ms 10.10.10.0/24
max-rtt-timeout 100ms	Sets the maximum round- trip timeout value.	nmapmax-rtt- timeout 100ms 10.10.10.0/24
min-rate 300	Sets the rate of packets sent per second.	nmapmin-rate 300 10.10.10.0/24
-T <0-5>	Chooses the scan timing template (0 = slowest, 5 =	nmap -T4 10.10.10.0/24

fastest).

## **Script Categories**

Category	What It Does	Example Command
auth	Tests for authentication weaknesses.	nmapscript auth 10.10.10.0/24
broadcast	Discovers hosts via broadcasting.	nmapscript broadcast 10.10.10.0/24
brute	Brute-forces logins with common credentials.	nmapscript brute 10.10.10.0/24
default	Runs default scripts with the -sC option.	nmap -sC 10.10.10.0/24
discovery	Identifies available services.	nmapscript discovery 10.10.10.0/24
dos	Tests for Denial of Service vulnerabilities (risky).	nmapscript dos 10.10.10.0/24
exploit	Attempts to exploit known vulnerabilities.	nmapscript exploit 10.10.10.0/24
external	Uses external services for data processing.	nmapscript external 10.10.10.0/24
fuzzer	Identifies vulnerabilities by sending malformed packets.	nmapscript fuzzer 10.10.10.0/24
intrusive	Performs potentially damaging tests.	nmapscript intrusive 10.10.10.0/24
malware	Scans for signs of malware infections.	nmapscript malware 10.10.10.0/24

safe	Safe, non-intrusive defensive scans.	nmapscript safe 10.10.10.0/24
version	Detects service versions.	nmapscript version 10.10.10.0/24
vuln	Scans for specific vulnerabilities.	nmapscript vuln 10.10.10.0/24