

Scan Techniques

Switch	Description	Example
-sS	TCP SYN port scan.	nmap -sS 192.168.1.1
-sT	TCP Connect port scan.	nmap -sT 192.168.1.1
-sU	UDP port scan.	nmap -sU 192.168.1.1
-sA	TCP ACK port scan.	nmap -sA 192.168.1.1

Host Discovery

Switch	Description	Example
-Pn	Only port scan.	nmap -Pn 192.168.1.1
-sn	Only host discovery.	nmap -sn 192.168.1.1
-PR	ARP discovery on local network.	nmap -PR 192.168.1.1
-n	Disable DNS resolution.	nmap -n 192.168.1.1

Port Specification

Switch	Description	Example
-p	Port or port range.	nmap -p 22-80 192.168.1.1
-p-	Scan all ports.	nmap -p- 192.168.1.1
-F	Fast port scan. (top 100)	nmap -F 192.168.1.1

Service and Version Detection

Switch	Description	Example
-sV	Detect the version of services.	nmap -sV 192.168.1.1
-A	Enable OS detection, version detection, script scanning and traceroute.	nmap -A 192.168.1.1

OS Detection

Switch	Description	Example
-O	Identify OS using TCP/IP stack fingerprinting.	nmap -O 192.168.1.1

Timing and Performance

Switch	Description	Example
-T0	Paranoid IDS evasion.	nmap -T0 192.168.1.1
-T1	Sneaky IDS evasion.	nmap -T1 192.168.1.1
-T2	Polite IDS evasion. (requires less bandwidth)	nmap -T2 192.168.1.1
-T3	Normal IDS evasion. (default)	nmap -T3 192.168.1.1
-T4	Aggressive speed scan. (requires fast network)	nmap -T4 192.168.1.1
-T5	Insane speed scan. (requires massive network speed)	nmap -T5 192.168.1.1

NSE Scripts

Switch	Description	Example
-sC	Default script scan.	nmap -sC 192.168.1.1
--script banner	Specify single script. (banner grabbing)	nmap --script banner 192.168.1.1

Firewall / IDS Evasion

Switch	Description	Example
-f	Use fragmented IP packets. (packet filter evasion)	nmap -f 192.168.1.1
-D	Decoy scan. (spoofed source IPs)	nmap -D 192.168.1.1
-g	Use given source port number.	nmap -g 22 192.168.1.1