

Timing and Performance

SWITCH	EXAMPLE	DESCRIPTION
-T0	nmap 192.168.1.1 -T0	Paranoid (0) Intrusion Detection System evasion
-T1	nmap 192.168.1.1 -T1	Sneaky (1) Intrusion Detection System evasion
-T2	nmap 192.168.1.1 -T2	Polite (2) slows down the scan to use less bandwidth and use less target machine resources
-T3	nmap 192.168.1.1 -T3	Normal (3) which is default speed
-T4	nmap 192.168.1.1 -T4	Aggressive (4) speeds scans; assumes you are on a reasonably fast and reliable network
-T5	nmap 192.168.1.1 -T5	Insane (5) speeds scan; assumes you are on an extraordinarily fast network

Timing and Performance Switches

WITCH	EXAMPLE INPUT	DESCRIPTION
-host-timeout <time>	1s; 4m; 2h	Give up on target after this long
-min-rtt-timeout/max-rtt-timeout/initial-rtt-timeout <time>	1s; 4m; 2h	Specifies probe round trip time

WITCH	EXAMPLE INPUT	DESCRIPTION
-min-hostgroup/max-hostgroup <size><size>	50; 1024	Parallel host scan group sizes
-min-parallelism/max-parallelism <numprobes>	10; 1	Probe parallelization
-max-retries <tries>	3	Specify the maximum number of port scan probe retransmissions
-min-rate <number>	100	Send packets no slower than <number> per second
-max-rate <number>	100	Send packets no faster than <number> per second

NSE Scripts

SWITCH	EXAMPLE	DESCRIPTION
-sC	nmap 192.168.1.1 -sC	Scan with default NSE scripts. Considered useful for discovery and safe

SWITCH	EXAMPLE	DESCRIPTION
-script default	nmap 192.168.1.1 -script default	Scan with default NSE scripts. Considered useful for discovery and safe
-script	nmap 192.168.1.1 -script=banner	Scan with a single script. Example banner
-script	nmap 192.168.1.1 -script=http*	Scan with a wildcard. Example http
-script	nmap 192.168.1.1 -script=http,banner	Scan with two scripts. Example http and banner
-script	nmap 192.168.1.1 -script "not intrusive"	Scan default, but remove intrusive scripts
-script-args	nmap -script snmp-sysdescr -script-args snmpcommunity=admin 192.168.1.1	NSE script with arguments

Useful NSE Script Examples

COMMAND	DESCRIPTION
nmap -Pn -script=http-sitemap-generator scanme.nmap.org	http site map generator

COMMAND	DESCRIPTION
<code>nmap -n -Pn -p 80 -open -sV -vvv -script banner,http-title -iR 1000</code>	Fast search for random web servers
<code>nmap -Pn -script=dns-brute domain.com</code>	Brute forces DNS hostnames guessing subdomains
<code>nmap -n -Pn -vv -O -sV -script smb-enum*,smb-ls,smb-mbenum,smb-os-discovery,smb-s*,smb-vuln*,smbv2* -vv 192.168.1.1</code>	Safe SMB scripts to run
<code>nmap -script whois* domain.com</code>	Whois query
<code>nmap -p80 -script http-unsafe-output-escaping scanme.nmap.org</code>	Detect cross site scripting vulnerabilities
<code>nmap -p80 -script http-sql-injection scanme.nmap.org</code>	Check for SQL injections

Firewall / IDS Evasion and Spoofing

SWITCH	EXAMPLE	DESCRIPTION
<code>-f</code>	<code>nmap 192.168.1.1 -f</code>	Requested scan (including ping scans) use tiny

SWITCH	EXAMPLE	DESCRIPTION
		fragmented IP packets. Harder for packet filters
-mtu	nmap 192.168.1.1 -mtu 32	Set your own offset size
-D	nmap -D 192.168.1.101,192.168.1.102,192.168.1.103,192.168.1.23 192.168.1.1	Send scans from spoofed IPs
-D	nmap -D decoy-ip1,decoy-ip2,your-own-ip,decoy-ip3,decoy-ip4 remote-host-ip	Above example explained
-S	nmap -S www.microsoft.com www.facebook.com	Scan Facebook from Microsoft (-e eth0 -Pn may be required)
-g	nmap -g 53 192.168.1.1	Use given source port number
-proxies	nmap -proxies http://192.168.1.1:8080, http://192.168.1.2:8080 192.168.1.1	Relay connections through

SWITCH	EXAMPLE	DESCRIPTION
		HTTP/SOCKS4 proxies
-data-length	nmap -data-length 200 192.168.1.1	Appends random data to sent packets