

Nmap Cheat Sheet



Nmap

Source: https://nmap.org

Nmap is a security scanner for network exploration and hacking. It allows you to discover hosts and services on a computer network, thus creating a "map" of the network. It sends specially crafted packets to the target host and then analyzes the responses to accomplish its goal. Either a network administrator or an attacker can use this tool for their specific needs.

Syntax		

nmap [Scan Type...]
[Options] {Target
specification}

1.Nmap Options 2.Nmap Port Scan types

3.Nmap Commands

Nmap Options

Option (Switch/ Syntax)	Description	
Target Specification		
-iL <inputfilename></inputfilename>	Input from list of hosts/networks	
-iR <num hosts=""></num>	Choose random targets/ Scan random hosts nmap -iR [number]	
<pre>exclude <host1[,host2][,host3],></host1[,host2][,host3],></pre>	Exclude single or multiple hosts/networks	
excludefile <exclude_file></exclude_file>	Exclude list from file	

Host Discovery		
-sL	List Scan - simply lists targets nmap <target ip="">-3 -sL</target>	
-sn	Ping Scan - disable port scan for discovering hostnmap <target ip="">/24 -sn</target>	
-Pn	Treat all hosts as online skip host discovery nmap <target ip="">-5 -Pn</target>	
-PS/PA/PU/PY[portlist]	TCP SYN/ACK, UDP or SCTP INIT discovery to given ports	
-PE/PP/PM	ICMP echo, timestamp, and netmask request discovery probes	
-рр	Use ICMP timestamp request	
-PO[protocol list]	IP Protocol Ping	
-n/-R	Never do DNS resolution/Always resolve [default: sometimes] nmap -n <target ip=""> nmap -R <target ip=""></target></target>	
dns-servers <serv1[,serv2],></serv1[,serv2],>	Immediate mode, display things as we find them	
system-dns	A string representing the intended sequence ignorance level	
traceroute	Path to a file where flat text will be dumped that normally would go to the users terminal	
-PR	Numeric value representing the number of seconds to wait before declaring the scan over	

-sS/sT/sA/sW/sM	TCP SYN/Connect()/ACK/Window/Maimon scans
-sU	UDP Scan nmap -sU -v <target ip=""></target>
	UDP port scan nmap <target ip=""> -sU</target>
-sN/sF/sX	TCP Null, FIN, and Xmas scans
scanflags=value -sA	TCP ACK scan nmap –scanflags=value –sA <target ip=""></target>
-scanflags	TCP scan flags nmap –-scanflags <target ip=""></target>
-Sp	Ping scan nmap -Sp <target ip=""></target>
scanflags <flags></flags>	Customize TCP scan flags
-sI <zombie host[:probeport]=""></zombie>	Idle zombie scan nmap –sI zombie <target ip=""></target>
-sY/sZ	SCTP INIT scan nmap -sY -v <target ip=""> SCTP COOKIE-ECHO scan nmap -sZ -v <target ip=""></target></target>
-s0	IP protocol scan nmap –sO <target ip=""></target>
-b <ftp host="" relay=""></ftp>	FTP bounce scan
-send-eth	Send raw ethernet packets nmap –send-eth <target ip=""></target>
-send-ip	Send IP packets nmap –send-ip <target ip=""></target>

Port Specification and Scan Order		
-p <port ranges=""></port>	Only scan specified range ports nmap -p 1-100 <target ip=""> e.gp80,443 or -p1–65535</target>	
-p-	Port scans all 1-65535 ports nmap <target ip=""> -p-</target>	
-p <pre>-p<</pre>	Port scan from specified protocols nmap -smtp,https <target ip=""></target>	
-F	Fast mode - Scan less ports than the default scan (scan 100 most common ports) nmap <target ip=""> -F</target>	
-r	Scan ports consecutively – do not randomize	
-randomize-hosts	Randomize target host order nmap –randomize-hosts <target ip=""></target>	
-p <port1>,<port2>,</port2></port1>	Port list	

-p <port1>-<port2></port2></port1>	Port range
-p "*"	Scan port using name nmap -p "*" ftp <target ip=""></target>
-pU:53,U:110,T20-445	Mix TCP and UDP
top-ports <number></number>	Scan < number > most common ports
port-ratio <ratio></ratio>	Scan ports more common than <ratio></ratio>
-p-65535	Leaving off initial port in range makes Nmap scan start at port 1 nmap <target ip=""> -p-65535 Leaving off initial port in range makes the scan start at port 1 nmap -p-65535 <target ip=""></target></target>
-p0-	Leaving off end port in range makes Nmap scan through port 65535 nmap <target ip=""> -p0- nmap -p0- <target ip=""></target></target>

Service/Version Detection	
sV	Probe open ports to determine service/versio info nmap <target ip=""> -sV</target>
version-intensity <level></level>	Set from 0 (light) to 9 (try all probes)
version-light	Limit to most likely probes (intensity 2)
version-all	Try every single probe (intensity 9)
version-trace	Show detailed version scan activity (for debugging)

Sc				

script= <scriptname> <scriptcategory> <scriptdir></scriptdir></scriptcategory></scriptname>	Run individual or group of scripts
script= <lua scripts=""></lua>	<lua scripts=""> is a comma separated list of directories, script-files or script-categories</lua>
script-trace	Show all data sent and received
script-updatedb	Update the script database. nmap –script-updatedb
script-help	"Lua scripts" = Show help about scripts



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nmap [Scan Type...]
[Options] {Target
specification}

- 1.Nmap Options
- 2.Nmap Port Scan types
- 3.Nmap Commands

Nmap Options

Option (Switch/ Syntax)	Description
OS Detec	tion
-0	Enable OS detection/ OS Discovery using Nmap and Unicornscan/ Remote OS Detection using TCP/IP stack fingerprinting nmap - O < Target IP >
osscan-limit	Limit OS detection to promising targets
osscan-guess	Guess OS more aggressively
max-os-tries	Set the maximum number x of OS detection tries against a target

Timing and Performance		
-T<0-5>	Set timing template (higher is faster)	
-ttl [time]	Set the packet TTL nmap -ttl [time] <target ip=""> nmap <target ip="">/24 -sn</target></target>	
min-hostgroup/max-hostgroup	Parallel host scan group sizes	
min-parallelism/max-paralleli sm <numprobes></numprobes>	Probe parallelization	
min-rtt-timeout/max-rtt-timeo ut/initial-rtt-timeout <time></time>	Specifies probe round trip time	
max-retries <tries></tries>	Caps number of port scan probe retransmissions	
host-timeout <time></time>	Give up on target after this long	
scan-delay/max-scan-delay <time></time>	Adjust delay between probes	
min-rate <number></number>	Send packets no slower than < number> per second	
max-rate <number></number>	Send packets no faster than < number > per second	
-defeat-rst-ratelimit	Defeat reset rate limits nmap –defeat-rst-ratelimit <target ip=""></target>	

Firewall/IDS Evasion and Spoofing		
-f;mtu <val></val>	Fragment packets (optionally w/given MTU)	
-D <decoy1,decoy2[,me],></decoy1,decoy2[,me],>	Cloak a scan with decoys	
-S <ip_address></ip_address>	Spoof source address	
-e <iface></iface>	Use given port number	
-g/source-port <portnum></portnum>	Append random data to send packets nmap –data-length [size] <target ip=""></target>	
data-length <num></num>	Send packets with specified IP options	
ip-options <options></options>	Set IP time-to-live field	
ttl <val></val>	Spoof your MAC address nmap –spoof-mac [MAC 0 vendor] <target ip=""></target>	
spoof-mac <mac address/prefix/vendor name></mac 	Idle zombie scan nmap –sI zombie <target ip=""></target>	
badsum	Send packets with a bogus TCP/UDP/SCTP checksum	
proxies url1,[url2],	Relay connections through HTTP/SOCKS4 proxies	

OUTPUT		
-oN/-oX/-oS/-oG <file></file>	Output scan in normal, XML, s <rlpt klddi3,<br="">and Grepable format, respectively, to the given filename</rlpt>	
-oA <basename></basename>	Output in the three major formats at once	
-v	Increase verbosity level (use -vv or more for greater effect) nmap -v <target ip=""></target>	
-d	Increase debugging level (use -dd or more for greater effect) nmap -d <target ips=""></target>	
reason	Display the reason a port is in a particular state	
open	Only show open (or possibly open) ports nmap –open <target ip=""></target>	
packet-trace	Show all packets sent and received nmap – packet-trace < Target IP > Print host interfaces and routes (for debugging) nmap – iflist	
log-errors	Log errors/warnings to the normal-format output file	
append-output	Append to rather than clobber specified output files	
resume <filename></filename>	Resume an aborted scan	

stylesheet <path url=""></path>	XSL stylesheet to transform XML output to HTML
webxml	Reference stylesheet from Nmap.Org for more portable XML
no-stylesheet	revent associating of XSL stylesheet w/XML output
-stats-every [time]	Periodically display statistics nmap –stats-every [time] <target ip=""></target>

Miscellaneous Options	
-h	Nmap help screen nmap -h
-6	IPv6 Scanning by using -6 option in Zenmap nmap -6 scanme.nmap.org Enable IPv6 scanning
	nmap -6 2607:f0d0:1002:51::4 OS discovery using IPv6 fingerprinting method nmap -6 -0 <target ip=""></target>
-A	Enables OS detection, version detection, script scanning, and traceroute, also known as Aggressive scan
-n	Disable reverse IP address lookups
datadir <dirname></dirname>	Specify custom Nmap data file location
send-eth/send-ip	Send using raw ethernet frames or IP packets
privileged	Assume that the user is fully privileged
-v	Display Nmap version nmap -V
unprivileged	Assume the user lacks raw socket privileges



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:	Syntax	

- nmap [Scan Type...]
 [Options] {Target
 specification}
- 1.Nmap Options
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2.Nmap Port Scan types

Command	Description
nmap -sT <target ip=""></target>	Connect Scan (Default without root privileges)/ Scan using TCP connect
nmap -sS <target ip=""></target>	Scan using TCP SYN scan (default)
nmap -Su <target ip=""></target>	UDP Scan
nmap -sA <target ip=""></target>	ACK Scan
nmap -Sw <target ip=""></target>	Window Scan
nmap -sM <target ip=""></target>	Maimon Scan
nmap -sL <target ip=""></target>	No Scan, list targets only
nmap -sL -v <target ip=""></target>	List scan
nmap -Pn <target ip=""></target>	Disable host discovery, port scanning
nmap -PSx <target ip=""></target>	SYN Discovery on port x, port 80 by default
nmap -PUx <target ip=""></target>	UDP discovery on port x, port 40125 by default
nmap -PAx <target ip=""></target>	ACK discovery on port x, port 80 by default
nmap -PR <target ip="">/24</target>	ARP discovery on local network
mnmap -n <target ip=""></target>	Never do DNS resolution
nmap -p x <target ip=""></target>	Scan for port x
nmap -p 21-50 <target ip=""></target>	Port Range
nmap -p U:53,T:21-25,80	Scan multiple TCP and UDP ports

Command	Description
nmap -p- <target ip=""></target>	Scan all ports
nmap -p http,ftp <target ip=""></target>	Port scan from service name
nmap -F <target ip=""></target>	Fast port scan (100 ports)
nmap -f <target ip=""></target>	Scan fragmented IP packets
nmapmtu x <target ip=""></target>	Set own offset size x
nmaptop-ports x <target ip=""></target>	Scan the top x ports
nmap -sVversion-intensity 5 <target ip=""></target>	Aggressive service discovery
nmap -sVversion-intensity 0 <target ip=""></target>	Light banner grabbing
nmap -sVversion-light <target ip=""></target>	Enable light mode, lower possibility of correctness
nmap -sVversion-all <target ip=""></target>	Enable intensity level 9. Higher possibility of correctness
nmap -0osscan-limit <target ip=""></target>	Limit OS detection to promising targets
nmap -Oosscan-guess <target ip=""></target>	Guess OS detection results
<pre>nmap -0max-os-tries x <target ip=""></target></pre>	Set maximum number of OS detection tries against a target
nmap -sU -p 123,161,162 <target ip=""></target>	Scan UDP ports
nmap -Pn -F <target ip=""></target>	Scan selected ports - ignore discovery
nmap -Pn -sTscan-delay 1s max-parallelism 1 -p <port List> <target ip=""></target></port 	Identify open ports and services
nmap -Pn -sT -p 46824 <target< th=""><th>Identify HMI systems</th></target<>	Identify HMI systems
nmap -Pn -sT -p 102script s7-info <target ip=""></target>	Scan Siemens SIMATIC S7 PLCs
nmap -Pn -sT -p 502script modbus-discover <target ip=""></target>	Scan Modbus Devices
nmap -sU -p 500 <target ip=""></target>	Check the status of isakmp over port 500
nmap -Pn -sU -p 47808script bacnet-info <target ip=""></target>	ScanBACnet Devices
nmap -Pn -sU -p 44818script enip-info <target ip=""></target>	Scan Ethernet/IP Devices

Command	Description
nmap -Pn -sT -p 1911,4911 script fox-info <target ip=""></target>	Scan Niagara Fox Devices
nmap -Pn -sT -p 20547script proconos-info <target ip=""></target>	Scan ProConOS Devices
nmap -Pn -sT -p 9600script omron-info <target ip=""></target>	Scan Omron PLC Devices
nmap -Pn -sU -p 9600script omron-info <target ip=""></target>	Scan Omron PLC Devices
nmap -Pn -sT -p 1962script pcworx-info <target ip=""></target>	Scan PCWorx Devices



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3. Nmap Commands

Command	Description
nmap -p 1-65535 -T4 -A -v <target ip=""></target>	Perform intense scan on all TCP ports
nmap -p ports <target ip=""></target>	Run Nmap to identify IoT devices using insecure HTTP ports for transmitting data
nmap -T4 -A -v -Pn <target ip=""></target>	Perform Intense scan with no ping
nmap -T4-A-v-PE-PS-PA Ports URL	Footprint Web Infrastructure: Service Discovery
nmap -sn <target ip=""></target>	Perform ping scan
nmap -sn <target ip="" subnet=""></target>	Disable port scanning, host discovery only
nmap -sn -PR <target ip=""></target>	ARP Ping Scan
nmap -sn -PU <target ip=""></target>	UDP Ping Scan
nmap -sn -PE <target ip=""></target>	ICMP ECHO Ping Scan
nmap -sn -PE <ip range=""></ip>	ICMP ECHO Ping Sweep
nnmap -sn -PP <target ip=""></target>	ICMP Timestamp Ping Scan
nmap -sn -PM <target ip=""></target>	ICMP Address Mask Ping Scan
nmap -sn -PS <target ip=""></target>	TCP SYN Ping Scan
nmap -sn -PA <target ip=""></target>	TCP ACK Ping Scan
nmap -sn -PO <target ip=""></target>	IP Protocol Ping Scan
nmap -St -v <target ip=""></target>	TCP Connect/ Full Open Scan
namp -sS -v <target ip=""></target>	Stealth Scan (Half-open Scan)

Command	Description
nmap -sX -v <target ip=""></target>	Xmas Scan
nmap -sM -v <target ip=""></target>	TCP Maimon Scan
nmap -sA -v <target ip=""></target>	TCP Connect/ Full Open Scan
nmap -badsum <target ip=""></target>	Sending Bad Checksums
<pre>nmapscript smb-os-discovery.nse <target ip=""></target></pre>	OS Discovery using Nmap Script Engine
nmap -sV -T4 -O -F -version-light <target ip=""></target>	Perform quick scan plus
nmap -sV -T4 -O -F -version-light scanme.nmap.org	Wi-Fi vulnerability scanning on wireless networks
nmap -sV -0 -p <target ip=""> nmap -sVscript http-enum <target ip=""></target></target>	NSE scripts to enumerate information about the target website/ web servers
nmap target IP address -p 80script = http-frontpage-login nmapscript http-passwdscript-args http-passwd.root	
nmap -sVscript http-enum <target domain=""></target>	Analyze Web Applications: Identify exposed Files and Directories of the target webserver
nmap -iL list-of-ips.txt	Scan targets from a text file
nmapscript=sniffer-detect [Target IP Address/Range of IP addresses]	Command to detect NIC in promiscuous mode
nmap <target ip="">data Oxdeadbeef</target>	Create Custom Packets by Appending Custom Binary Data
nmap <target ip="">data-string "ph34r my 33t skills"</target>	Create Custom Packets by Appending Custom String
nmap <target ip="">data-string 5</target>	Create Custom Packets by Appending Random Data
nmap -sU -p 500 <target ip=""></target>	Perform a check on the status of ISAKMP over port 500
nmap -sR <target ip="" network=""></target>	Identify the RPC service running on the network
nmapscript hostmap <host></host>	Discover virtual domains with hostmap
nmapscript http-trace -p80 localhost	Detect a vulnerable server that uses the TRACE method
nmapscript http-google-email <host></host>	Harvest email accounts with http-google-email
nmap -p80script http-userdir -enum localhost	Enumerate users with http-userdir-enum
nmap -p80script http-trace <host></host>	Detect HTTP TRACE

Comment.	Paradolina.
Command	Description
nmap -p80script http-waf-detect script-args="http-wafdetect. uri=/testphp.vulnweb.com/artists. php,http-wafdetect. detectBodyChanges" www.modsecurity.org	Check if web server is protected by WAF/IPS
nmapscript http-enum -p80 <host></host>	Enumerate common web applications
<pre>nmap -p80script http-robots.txt <host></host></pre>	Obtain robots.txt
<pre>nmap -p80script http-test.txt <host></host></pre>	Obtain test.txt
<pre>nmapscript=asn-query,whois,ip-geolo cation-maxmind <target <="" ip="" pre=""></target></pre>	IP address Information
nmapscript=http-title <target ip="" subnet=""></target>	Gather page titles from HTTP services
nmapscript=http-headers <target ip="" subnet=""></target>	Get HTTP headers of web services
nmapscript=http-enum <target ip="" subnet=""></target>	Find web apps from known paths
nmap -n -Pn -sSU -pT:0-65535,U:0-65535 -v -A -oX <name><target ip=""></target></name>	Perform complete scan of the IoT device that checks for both TCP and UDP services and ports
nmap -sS -T4 -A -f -v <target ip=""></target>	Packet Fragmentation/ SYN/FIN scan using Nmap
nmap -g 80 <target ip=""></target>	Source Port Manipulation/ Use given source port number
<pre>nmap -sU -A -PN -n -pU:19,53,123,161 -script=ntp-monlist,dns-recursi on,snmp-sysdescr <target ip="" network=""></target></pre>	Scan for UDP DDOS reflectors
nmap -6 -n -Pn -sSU -pT:0-65535,U:0-65535 -v -A -oX <name><target ip=""></target></name>	Identify the IPv6 capabilities of a device
nmap -T4 -A -v <target ip=""></target>	Perform intense scan
nmap -T4 -A <target ip="" subnet=""></target>	Identify vulnerable services on service port by attackers by using RPC Enumeration
nmap -p 23 <target domain=""></target>	Telnet Enumeration
nmap -p 23script telnet-ntlm-info <target ip=""></target>	Enumerate information from remote Microsof Telnet services with NTLM authentication enabled
nmap -p 23 -script telnet-brute.nse -script-args	Perform brute-force attack against telnet server
nmap -p 445 -A <target ip=""></target>	Enumerate SMB service running on the target IP address/ SMB Enumeration
nmap -p 21 <target domain=""></target>	FTP Enumeration



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Syntax		
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3. Nmap Commands

www.eccouncil.org/ceh

Command	Description
nmap -p 69 <target domain=""></target>	Enumerate TFTP service running on the target domain
nmap -p 179 <target ip=""></target>	BGP Enumeration
nmap -sS -sU -T4 -A -v <target IP></target 	Perform intense scan and scanning for UDP
nmap -sV -v -p 139,445 <target ip="" subnet=""></target>	Detect all exposed Netbios servers on the subnet
nmap -sV -vscript nbstat.nse <target ip=""></target>	map's nbstat NSE script allow attackers to retrieve target's NetBIOS names and MAC addresses
nmap -sUscript nbstat.nse -p 137 <target address="" ip=""></target>	Find target Netbios name
nmapscript-args=unsafe=1 script smb-check-vulns.nse -p 445 <target address="" ip=""></target>	Check if Netbios servers are vulnerable to MS08-067
nmap -sVversion-intensity 0 <target ip=""></target>	Lighter banner grabbing detection
nmap -sVversion-intensity 5 <target ip=""></target>	More aggressive Service Detection
nmap -sV <target ip=""></target>	Attempts to determine the version of service running/ Standard service detection/ Service Version Discovery in Zenmap
nmap script-help=ssl-heartbleed	Get help for a script
<pre>nmapscript dns-zonetransfer.nsescript-args dns-zonetransfer.domain=<domain> -p53 <hosts></hosts></domain></pre>	Attempts to pull a zone file (AXFR) from a DNS server
nmapscript http-robots.txt <hosts></hosts>	Harvests robots.txt files from discovered web servers
nmapscript smb-brute.nse -p445 <hosts></hosts>	Attempts to determine valid username and password combinations via automated guessing
<pre>nmapscript smb-psexec.nse - script-args=smbuser=<username>, smbpass=<password>[,config=<con fig="">] -p445 <hosts></hosts></con></password></username></pre>	Attempts to run a series of programs on the target machine, using credentials provided as scriptargs
nmap -sV -p 443 script=ssl-heartbleed <target IP/Subnet></target 	Detect Heartbleed SSL Vulnerability
nmap <target ip="">-50 -sL dns-server <target ip=""></target></target>	Query the Internal DNS for hosts, list targets only

Command	Description
nmap -iR 10 -sn -traceroute	Traceroute to random targets, no port scan
nmap <target ip="">-1/24 -PR -sn -vv</target>	Arp discovery only on local network, no port scan
nmap -iR 10 -PS22-25,80,113,1050,35000 -v -sn	Discovery only on ports x, no port scan
nmap -sP <target ip="" subnet=""></target>	Ping scans the network, listing machines that respond to ping
nmap -v -sS -A -T4 <target ip=""></target>	Prints verbose output, runs stealth syn scan, T4 timing, OS and version detection, traceroute and scripts against target services
nmap -v -sV -O -sS -T5 <target ip=""></target>	Prints verbose output, runs stealth syn scan, T5 timing, OS and version detection
nmap -iL ip-addresses.txt	Scans a list of IP addresses
<pre>nmap - script-args=unsafe=1 - script smb-check-vulns.nse -p 445 <target ip=""></target></pre>	Check if Netbios servers are vulnerable to MS08–067
nmap -Pn -psI zombie target	Attack
nmap -b ftp rely host	FTP Bounce Scan <username>:<password>@<server>:<port>. <server> is the name or IP address of a vulnerable FTP server</server></port></server></password></username>
nmap -T0 <target ip=""></target>	Paranoid (0) Intrusion Detection System evasion
nmap -T1 <target ip=""></target>	Sneaky (1) Intrusion Detection System evasion
nmap -T2 <target ip=""></target>	Polite (2) slows down the scan to use less bandwidth and use less target machine resources
nmap -T3 <target ip=""></target>	Normal (3) default speed
nmap -T4 <target ip=""></target>	Aggressive (4) speeds scan; assumes you are on a reasonably fast and reliable network
nmap -T5 <target ip=""></target>	Insane (5) speeds scan; assumes you are on extraordinarily fast network
nmapscript=ftp <target ip=""></target>	Scan with a single script
nmapscript=http* <target ip=""></target>	Scan with a wildcard script
nmapscript=banner,http <target ip=""></target>	Scan with two scripts
nmapscript "not intrusive" <target ip=""></target>	Scan default, but remove intrusive scripts
nmap -Pn script=http-sitemap-generator xyz.com	HTTP site map generator

Command	Description
nmap -n -Pn -p 80open -sV -vvvscript banner,http-title -iR 1000	Fast search for random web servers
nmap -Pnscript=dns-brute xyz.com	Brute forces DNS hostnames guessing subdomain
nmap -n -Pn -vv -O -sVscript smb-enum*,smb-1s,smb-mbenum,smb- os-discovery,smb-s*,smb-vuln*,sm bv2* -vv <target ip=""></target>	Safe SMB scripts to run
nmapscript whois* <target domain=""></target>	Whois query
<pre>nmap -p80script http-unsafe-output-escaping <target website=""></target></pre>	Detect cross site scripting vulnerabilities
nmap -p80script http-sql-injection <target< td=""><td>Check for SQL injections</td></target<>	Check for SQL injections
nmapdata-length x <target ip=""></target>	Appends random data to sent packets
nmap -oN file.file append-output <target ip=""></target>	Append a scan to a previous scan file
nmapiflist	Shows the host interface and routes
nmap -6 2607:f0d2:5664:51::5	Enable IPV6 scanning
nmap -TO -b username:password@ftpserver.tld :21 victim.tld	Uses the username "username", the password "password", the FTP server "ftpserver.tld" and port 21 on said server to scan victim.tld.
<pre>nmap -sU -sT -p U:[ports],T:[ports] <target ip=""></target></pre>	Scan ports by protocol
nmap -sV -version-trace <target ip=""></target>	Troubleshooting version scans
nmap -script [script.nse] <target ip=""></target>	Execute individual scripts
nmap -script [expression] <target ip=""></target>	Execute multiple scripts
nmap -script [category] <target ip=""></target>	Execute scripts by category
nmap -script [category1,category2, etc]	Execute multiple scripts categories
nmap -script [script] -script-trace <target ip=""></target>	Troubleshoot scripts
<pre>\$ docker -H <docker host=""> runnetwork=hostrm marsmensch/nmap -ox <ip range=""></ip></docker></pre>	Use Nmap to scan the host's internal network to identify running services
ndiff [scan1.xml] [scan2.xml]	Comparison using Ndiff
ndiff -v [scan1.xml] [scan2.xml]	Ndiff verbose mode
ndiff -xml [scan1.xm]	XML output mode



Nmap Cheat Sheet



Nmap

Source: https://nmap.org

Nmap is a security scanner for network exploration and hacking. It allows you to discover hosts and services on a computer network, thus creating a "map" of the network. It sends specially crafted packets to the target host and then analyzes the responses to accomplish its goal. Either a network administrator or an attacker can use this tool for their specific needs.

Syntax

nmap [Scan Type...]
[Options] {Target
specification}

- 1.Nmap Options
- 2.Nmap Port Scan types
- 3.Nmap Commands

Port Selection

Command	Description
nmap <target ip=""></target>	Scan single IP
nmap <target ip=""> <target ip=""></target></target>	Scan specific IPs
nmap <target ip="" range=""></target>	Scan a range of IPs
nmap <target website=""></target>	Scan a host
nmap <target domain=""></target>	Scan a domain
nmap <target ip="" subnet=""></target>	Scan using CIDR notation
nmap -iL file.txt	Scan targets using given file
nmapexclude <target ip=""></target>	Exclude listed host/ specified IP s exclude from scan
nmap -iR 50	Scan 50 random hosts

NSE Scripts

Command	Description
nmap -sC <target ip=""></target>	Scan with default NSE scripts.
nmapscript-default <target ip=""></target>	Scan with default NSE scripts.
nmapscript snmp-sysdescr script-args snmpcommunity=admin <target ip=""></target>	NSE script with arguments
nmap -script-args-file=filename	Provide NSE script args in a file
nmap -sV -sC <target ip=""></target>	Scan using default safe scripts
nmap -sVscript=smb* <target ip=""></target>	Scan with a set of scripts
nmap -sV -p 443 -script=ssl-heartbleed.nse <target ip=""></target>	Scan using a specific NSE script