

nmap cheat sheet v1.0 by Jimmy Larsson, <https://nat0.net>

Target specification

Single host by ip: 192.168.1.10

Single host by dns name: scanme.nmap.org

Range: 192.168.1.10-20

Range in any octet: 192.168-169.1-240.20

CIDR/prefix notation: 192.168.1.0/24

Any combination of the above can be stacked as parameters

Targets specified in file: -iL <filename>

Random targets: -iR <number of targets> (use with caution!)

List the specified targets enumerated: -sL (does not scan at all)

Nmap phases

- Target enumeration
- Host discovery (arp/ping)
- Reverse DNS (-n to disable)
- Port scanning
- Version detection (enable with -SV)
- OS Detection (enable with -O)
- trace-route (enable with --trace-route)
- Script scanning (enable with --script)
- Output

Specifying ports to scan

nmap defaults scan the 1000 most common TCP ports

-p <ports>

where <ports> can be a range of ports: 80-85

or multiple ports or ranges separated by commas: 80-85,89,91-99

-F <number> scans only the <number> most common ports

Output during scan

-v for verbosity

-vv for more verbosity

-d for debug

press "v" during scan to increase verbosity level

press "V" during scan to decrease verbosity level

Press Enter during scan to get current status

Output after scan

--open to only list open ports

-oG <filename> to write result to greppable file

-oX <filename> to write result to XML file

tcp scanning techniques

Connect scan: -sT (default)

SYN scan: -sS

Version scanning

-sV to enable version scanning

OS Detection

-O to enable OS detection

Script scanning

--script to enable default set of scripts

--script=<scriptname> to run a specific script