

# Network Recon Cheat Sheet

by coffeefueled via cheatography.com/25996/cs/7096/

## Nmap Base Syntax

# nmap [Scan Type] [Options] {targets}

## Target Specification

Single IPv4: 192.168.1.1

Single IPv6: AAAA::FF

FQDN: host.local

IPv4 Range: 192.168.1.27-78

CIDR Block: 192.168.1.0/16

File: -iL targets.txt

## **Host Discovery Options**

list hosts and reverse DNS -sL

discovery probes only -sn

skip discovery stage - Pn

disable reverse DNS resolution -n

- R force reverse DNS resolution

--dns-servers <list>

## Scan Options

| TCP Scan | Types |
|----------|-------|
|----------|-------|

| TCP Scan Types                                   |                      |
|--|----------------------|
| -sS  | SYN                  |
| -sT  | Connect              |
| -sN  | NULL                 |
| -sF  | FIN                  |
| -sX  | Xmas (FIN, PSH, URG) |
| -sA  | ACK                  |
| -sW  | Window               |
| -sM  | FIN/ACK              |
| -sI <zombie< td=""><td>use zombie</td></zombie<> | use zombie           |
| host>  |                      |
| scanflags  | URG/ACK/PSH/RST/SY   |

## Scan Options (cont)

#### **UDP Scan**

UDP

## **SCTP Scan Types**

-sZ COOKIE ECHO

#### **Protocol Scan**

IP Protocol Scan

## -p - Port Options

#### Exclude ports

--exclude ports <port ranges>

#### Protocol specification

T21-25 - TCP ports 21 to 25

U53, 111, 137 - UDP ports 53, 111, 137

S22 - SCTP port 22

P - IP Protocol

#### Fast port scan

-F - scan top 100 ports (default 1000)

## Sequential port scan

-r - sequential scan (default random)

## Ports in nmap-services file

[1-65535] - ports in nmap-services

--port-ratio - ports with greater ratio

--top-ports <n> - n highest ratio

## -o - OS Detection Options

--osscan-limit only live machines

--fuzzy low-probability guesses

| Output Options        |                              |
|-----------------------|------------------------------|
| -v vv vvv             | verbosity                    |
| -d<0-9>               | debugging                    |
| reason                | explain port and host states |
| File Outputs          |                              |
| -oN <file></file>     | normal                       |
| oX <file></file>      | XML                          |
| -oS <file></file>     | script kiddie                |
| -oG <file></file>     | grepable                     |
| -oA                   | all                          |
| <basename></basename> |                              |

## Scripting Engine Options

## Use default scripts

--script=default

#### Run scripts (individual or list)

<filename> - script filename

<category> - category of scripts

<directory> - scripts in directory

<expression> - boolean expression

[, . . . ] - continue comma separated list

#### Script arguments

--script-args

<n1>=<v1>

 $< n2> = {< n3> = < v3>}$ 

 $< n4 > = {< v4 > , < v5 > }$ 

#### Load script args from a file

--script-args-file <filename>

#### Debug information

--script-trace

#### Update script database

--script-updatedb

[flags]

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N/FIN

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# -sV - Version Detection Options

send less common probes (default 7)

--version intensity <0-9>

light version scanning (intensity 2)

--version light

full version scanning (intensity 9)

--version-all

debug information

--version-trace

| Miscellaneous Options                                 |  |
|---|--|
| - 6   | IPv6   |
| - A   | Aggressive -0 -sV -sC traceroute   |
| -T paranoid 0 sneaky 1 polite 2 normal 3 aggressive 4 | Timing options slowest scan slower scan slow scan default faster scan fastest scan |

## **Runtime Commands**

| v   V | + - verbosity         |
|-------|-----------------------|
| d D   | + - debugging         |
| p P   | on off packet tracing |

| DNS Enumeration                   |  |
|-----------------------------------|--|
| dnsrecon                          |  |
| domain                            | domain to target   |
| range                             | IP range for reverse lookup  |
| name_server                       | DNS server   |
| dictionary                        | dictionary of targets  |
| type<br>std<br>goo<br>axfr<br>tld | type of enumeration<br>standard<br>Google sub-<br>domains<br>test for zone<br>transfers<br>test against IANA<br>TLDs |
| - W                               | deep whois analysis  |
| csv                               | export to CSV  |
| dnsenum                           |  |
| dnsserver<br><server></server>    | target dns server  |
| subfile                           | output file  |

| Service Enumeration                                       |                  |
|---|------------------|
| Useful command lines                                      |                  |
| nmap -v -p <ports> - <address range=""></address></ports> | oG <file></file> |
| ls -1   |                  |
| /usr/share/nmap/scripts/ <protocol>*</protocol>           |                  |
| SMB   | TCP 139,445      |
| nbtscan   |                  |
| -r  | use port 137     |
| <address range=""></address>                              | targets          |
| enum4linux  |                  |

| Service Enumeration (cont)            |                                      |
|---------------------------------------|--------------------------------------|
| -a                                    | all simple enumeration               |
| -u user -p                            | authenticated                        |
| pass                                  |                                      |
| SMTP                                  | TCP 25, 110                          |
| nc -nv <address> 2</address>          | 25                                   |
| VRFY                                  | verify address                       |
| EXPN                                  | query mail list                      |
| SNMP                                  | UDP 161                              |
| onesixtyone                           |                                      |
| -c <file></file>                      | community strings                    |
| -i <file></file>                      | targets                              |
| -o <file></file>                      | output file                          |
| <pre>snmpwalk [opt] agent [OID]</pre> |                                      |
| -c <string></string>                  | community string                     |
| -v{1 2c 3}                            | version                              |
| snmpcheck                             | enumeration tool                     |
| -t <address></address>                | target                               |
| - C                                   | community string detect write access |
| - W                                   | dotoot willo doooo                   |
| SQL                                   | TCP 1433,3306                        |
| sqlmap                                |                                      |
| url="url"                             | target                               |
| dbms= <dbms></dbms>                   | force dbms                           |
| - a                                   | retrieve all                         |
| dump                                  | dump data                            |
|                                       |                                      |



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retrieve shell crawl site

--os-shell

--crawl