NMAP

Misc

- -6: Enable IPv6 scanning
- -A: Enable OS detection, version detection, script scanning, and traceroute
 - --datadir <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
 - --unprivileged: Assume the user lacks raw socket privileges
 - -V: Print version number
 - -h: Print this help summary page.

Output

- -oN/-oX/-oS/-oG <file>: Output scan in normal, XML, s|<ript kiddi3, and Grepable format, respectively, to the given filename.</p>
 - -oA <basename>: Output in the three major formats at once
 - -v: Increase verbosity level (use -vv or more for greater effect)
 - -d: Increase debugging level (use -dd or more for greater effect)
 - --reason: Display the reason a port is in a particular state
 - --open: Only show open (or possibly open) ports
 - --packet-trace: Show all packets sent and received
 - --iflist: Print host interfaces and routes (for debugging)
 - --append-output: Append to rather than clobber specified output files
 - --**resume** <filename>: Resume an aborted scan
 - --noninteractive: Disable runtime interactions via keyboard
 - --stylesheet <path/URL>: XSL stylesheet to transform XML output to HTML -
 - --webxml: Reference stylesheet from Nmap.Org for more portable XML
 - --no-stylesheet: Prevent associating of XSL stylesheet w/XML output

Firewall/IDS Evasion & Spoofing

- -f; --mtu <val>: fragment packets (optionally w/given MTU)
 - -D <decoy1,decoy2[,ME],...>: Cloak a scan with decoys
 - -S <IP_Address>: Spoof source address
 - -e <iface>: Use specified interface
- -g/--source-port <portnum>: Use given port number
- --proxies <url1,[url2],...>: Relay connections through HTTP/SOCKS4 proxies
 - --data <hex string>: Append a custom payload to sent packets
 - --data-string <string>: Append a custom ASCII string to sent packets
 - --data-length <num>: Append random data to sent packets
 - --ip-options <options>: Send packets with specified ip options
 - --ttl <val>: Set IP time-to-live field
- --spoof-mac <mac address/prefix/vendor name>: Spoof your MAC address
 - --badsum: Send packets with a bogus TCP/UDP/SCTP checksum

Timing & Performance

- -T<0-5>: Set timing template (higher is faster)
- --min-hostgroup/max-hostgroup <size>: Parallel host scan group sizes
- --min-parallelism/max-parallelism <numprobes>: Probe parallelization
- --min-rtt-timeout/max-rtt-timeout/initial-rtt-timeout <time>: Specifies probe round trip time.
 - --max-retries <tries>: Caps number of port scan probe retransmissions.
 - --host-timeout <time>: Give up on target after this long
 - --scan-delay/--max-scan-delay <time>: Adjust delay between probes
 - --min-rate <number>: Send packets no slower than <number> per second
 - --max-rate <number>: Send packets no faster than <number> per second

OS Detection

- -O: Enable OS detection
- --osscan-limit: Limit OS detection to promising targets
 - --osscan-guess: Guess OS more aggressively

Target Specification

- -iL <inputfilename>: Input from list of hosts/networks
- -iR <num hosts>: Choose random targets
- --exclude <host1[,host2][,host3],...>: Exclude hosts/networks
- --excludefile <exclude_file>: Exclude list from file

Host Discovery

- -sL: List Scan simply list targets to scan
- -sn: Ping Scan disable port scan
- -Pn: Treat all hosts as online -- skip host discovery
- -PS/PA/PU/PY: TCP SYN/ACK, UDP or SCTP discovery to given ports
- -PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes
- -PO[protocol list]: IP Protocol Ping
- -n/-R: Never do DNS resolution/Always resolve [default: sometimes]
- --dns-servers <serv1[serv2]...>: Specify custom DNS servers
- --system-dns: Use OS's DNS resolver
- --traceroute: Trace hop path to each host

Scan Techniques

- -sS/sT/sA/sW/sM: TCP SYN/Connect()/ACK/Window/Maimon scans
- -sU: UDP Scan
- -sN/sF/sX: TCP Null, FIN, and Xmas scans
- --scanflags <flags>: Customize TCP scan flags
- -sI <zombie host[:probeport]>: Idle scan
- -sY/sZ: SCTP INIT/COOKIE-ECHO scans
- -s0: IP protocol scan
- -b <FTP relay host>: FTP bounce scan

Port Specification & Scan Order

- -p <port ranges>: Only scan specified ports
- --exclude-ports <port ranges>: Exclude the specified ports from scanning
- -F: Fast mode Scan fewer ports than the default scan
- -r: Scan ports sequentially don't randomize
- --top-ports <number>: Scan <number> most common ports
- --port-ratio <ratio>: Scan ports more common than <ratio>

Service/Version Detection

- -sV: Probe open ports to determine service/version info
- --version-intensity <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)

Script Scan

- -sC: equivalent to --script=default
- --script=<Lua scripts>: <Lua scripts> is a comma separated list of directories, script-files or script-categories.
- --script-args=<n1=v1,[n2=v2,...]>: provide arguments to scripts
- --script-args-file=filename: provide NSE script args in a file
- --script-trace: Show all data sent and received
- --script-updatedb: Update the script database.
- --script-help= <Lua scripts>: Show help about scripts. <Lua scripts> is a commaseparated list of script-files or script-categories.



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