Nmap 7.80 Cheatsheet series (ingenieriainformatica.uniovi.es)

Part 1: Reconnaissance (Basic)

https://nmap.org/

GENERAL USAGE

nmap [Scan Type(s)] [Options] {target specification}

NOTES

Target specifications can be host names, IP addresses, ranges, networks, etc. (scanme.nmap.org, microsoft.com/24, 192.168.0.1; 10.0.0-255.1-254)

Use these options to locate "alive machines" (sometimes only returns that, sometimes they also return some port / service information)

operario@kali:~\$ nmap -sn 192.168.20.10

Starting Nmap 7.80 (https://nmap.org) at 2020-09-21 18:38 CEST

Nmap scan report for 192.168.20.10 Host is up (0.00085s latency).

Nmap done: 1 IP address (1 host up) scanned in 13.01 seconds

operario@kali:~\$ sudo nmap -PS22,80 192.168.20.10

Starting Nmap 7.80 (https://nmap.org) at 2020-09-21 18:42 CEST

Nmap scan report for 192.168.20.10

Host is up (0.00012s latency).

Not shown: 999 closed ports

PORT STATE SERVICE

80/tcp open http

MAC Address: 08:00:27:67:7A:EF (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 13.30 seconds

TARGET SPECIFICATION	HOST DISCOVERY OPTIONS (WAYS TO CHECK "ALIVE" MACHINES)
-iL <inputfilename>: Input from from file a list of hosts/networks</inputfilename>	dns-servers <serv1[,serv2],>: Specify custom DNS servers</serv1[,serv2],>
-iR <num hosts="">: Choose random targets</num>	-n/-R: Never do DNS resolution/Always resolve [default: sometimes]
exclude <host1[,host2][,host3],>: Exclude hosts/networks</host1[,host2][,host3],>	-PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes
excludefile <exclude_file>: Exclude list from file</exclude_file>	-Pn: Treat all provided hosts as online skip host discovery
RECONOISSANCE EXAMPLES	-PO[protocol list]: IP Protocol Ping
nmap -sn scanme.nmap.org	-PS/PA/PU/PY[portlist]: TCP SYN/ACK, UDP or SCTP discovery to given ports
sudo nmap -PS22,80 scanme.nmap.org	-sL: List Scan - simply list targets to scan
sudo nmaptraceroute scanme.nmap.org	-sn: Ping Scan - disable port scan
by José Manuel Redondo López	system-dns: Use OS's DNS resolver
	traceroute: Trace hop path to each host