

# Nmap 7.80 Cheatsheet series (ingenieriainformatica.uniovi.es)



## Part 1: Reconnaissance (Advanced)

<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 that, sometimes they also return some port / service information)

```
operario@kali:~$ sudo nmap --script targets-sniffer 192.168.20.0/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-09-21 18:47 CEST
Nmap scan report for 192.168.20.10
Host is up (0.000097s 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 scan report for 192.168.20.1
Host is up (0.0000030s latency).
All 1000 scanned ports on 192.168.20.1 are closed

Nmap done: 256 IP addresses (2 hosts up) scanned in 29.35 seconds
```

TARGET SPECIFICATION	HOST DISCOVERY OPTIONS (WAYS TO CHECK "ALIVE" MACHINES)
<code>--exclude &lt;host1[,host2][,host3],...&gt;</code> : Exclude hosts/networks	<code>--dns-servers &lt;serv1[,serv2],...&gt;</code> : Specify custom DNS servers
<code>--excludefile &lt;exclude_file&gt;</code> : Exclude list from file	<code>-n/-R</code> : Never do DNS resolution/Always resolve [default: sometimes]
<code>-iL &lt;inputfilename&gt;</code> : Input from file a list of hosts/networks	<code>-PE/PP/PM</code> : ICMP echo, timestamp, and netmask request discovery probes
<code>-iR &lt;num hosts&gt;</code> : Choose random targets	<code>-Pn</code> : Treat all provided hosts as online -- skip host discovery
<b>SCRIPT SCAN</b> ( <a href="https://nmap.org/book/man-nse.html">https://nmap.org/book/man-nse.html</a> )	<code>-PO[protocol list]</code> : IP Protocol Ping
<code>-sC</code> : equivalent to <code>--script=default</code>	<code>-PS/PA/PU/PY[portlist]</code> : TCP SYN/ACK, UDP or SCTP discovery to given ports
<code>--script=&lt;NSE scripts&gt;</code> : <NSE scripts> is a comma separated list of directories, script-files or script-categories	<code>-sL</code> : List Scan - simply list targets to scan
<code>--script-args=&lt;n1=v1,[n2=v2,...]&gt;</code> : provide arguments to scripts (see each script documentation to consult argument names, number, and valid value types)	<code>-sn</code> : Ping Scan - disable port scan
<code>--script-args-file=filename</code> : provide NSE script args in a file	<code>--system-dns</code> : Use OS's DNS resolver
<code>--script-trace</code> : Show all data sent and received	<code>--traceroute</code> : Trace hop path to each host
RECOMMENDED SCRIPT CATEGORIES FOR ADVANCED RECONNAISSANCE ( <a href="https://nmap.org/nsedoc/">https://nmap.org/nsedoc/</a> )	RECONOISSANCE EXAMPLES
<b>broadcast</b> : Scripts in this category typically do discovery of hosts not listed on the command line by broadcasting on the local network. Use the newtargets script argument to allow these scripts to automatically add the hosts they discover to the Nmap scanning queue. <a href="https://nmap.org/nsedoc/categories/broadcast.html">https://nmap.org/nsedoc/categories/broadcast.html</a>	<code>sudo nmap --script targets-sniffer 192.168.20.0/24</code>
	<code>sudo nmap --script broadcast-dropbox-listener 192.168.20.0/24</code>
	<code>sudo nmap --script mringo scanme.nmap.org</code>
	<code>sudo nmap -iL ips_to_scan.txt</code>

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