

nmap

Base Syntax

```
nmap {Targets} [ScanType] [Options]
```

Target

Purpose	Example
1 target	<code>nmap IP</code>
scan multiple targets	<code>nmap IP1, IP2, IP3</code>
scan a list	<code>nmap -iL list.txt</code>
scan CIDR range	<code>nmap 192.168.1.0/24</code>

Ports

Purpose	Example
Scan top 1k popular ports	<code>nmap IP</code>
Port range	<code>nmap -p x-y</code>
Port list	<code>nmap -p x,y,z</code>
linear portrange	<code>nmap -r x-y</code>

Probing

Purpose	Example
Don't probe	<code>nmap IP -Pn</code>
Default probe	<code>nmap IP -PB</code>
ICMP Echo Request	<code>nmap IP -PE</code>
ICMP Timestamp Request	<code>nmap IP -PP</code>

Purpose	Example
ICMP Network Request	<code>nmap IP -PM</code>

Scan Type

Purpose	Example
Probe only	<code>nmap IP -sn</code>
SYN Scan	<code>nmap IP -sS</code>
TCP Connect Scan	<code>nmap IP -sT</code>
UDP Scan	<code>nmap IP -su</code>
Version scan	<code>nmap IP -sV</code>
OS Detection	<code>nmap IP -PM</code>
Set TCP flags	<code>nmap IP --scanflags: x,y,z</code>

Timing Options

Purpose	Example
Paranoid	<code>nmap IP -T0</code>
Sneaky	<code>nmap IP -T1</code>
Polite	<code>nmap IP -T2</code>
Normal	<code>nmap IP -T3</code>
Aggressive	<code>nmap IP -T4</code>
Insane	<code>nmap IP -T5</code>

Output Format

Purpose	Example
Standard	<code>nmap IP -oN file.txt</code>
Greppable	<code>nmap IP -oG file.txt</code>
XML	<code>nmap IP -oX file.txt</code>
all formats	<code>nmap IP -oA file</code>

Misc Options

Purpose	Example
Aggresive scan	<code>nmap IP -A</code>
nmap reason why a port is in a state	<code>nmap IP --reason</code>

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