



40+ Vital Nmap Commands

Every Cybersecurity Analyst Should Master

Switch	Example	Description
-	nmap 192.168.1.1	Scan a single IP
-	nmap 192.168.1.1 192.168.2.1	Scan specific IPs
-	nmap 192.168.1.1-254	Scan a range
_	nmap scanme.nmap.org	Scan a domain
-	nmap 192.168.1.0/24	Scan using CIDR notation
-iL	nmap -iL targets.txt	Scan targets from a file
iR	nmap -iR 100	Scan 100 random hosts
- exclude	nmap -exclude 192.168.1.1	Exclude listed hosts
Host Discove	ery	
sL	nmap 192.168.1.1-3 -sL nmap	No Scan. List targets only Disable port scanning.
sn	192.168.1.1/24 -sn nmap	Host discovery only Disable host discovery. Port
Pn	192.168.1.1-5 -Pn nmap	scan only TCP SYN discovery on port x. Port 80
PS	192.168.1.1-5 -PS22-25,80 nmap	by default TCP ACK discovery on port x. Port 80
PA	192.168.1.1-5 -PA22-25,80 nmap	by default UDP discovery on port x. Port 40125
PU	192.168.1.1-5 -PU53 nmap	by default ARP discovery on local network
PR	192.168.1.1-1/24 -PR nmap	Never do DNS resolution
n	192.168.1.1 -n	
Port Specific	ation	
р	nmap 192.168.1.1 -p 21	Port scan for port x
р	nmap 192.168.1.1 -p 21-100	Port range
р	nmap 192.168.1.1 -p U:53,T:21-25,80	Port scan multiple TCP and UDP ports
р	nmap 192.168.1.1 -p-	Port scan all ports
р	nmap 192.168.1.1 -p http,https	Port scan from service name
F	nmap 192.168.1.1 -F	Fast port scan (100 ports)
top-ports	nmap 192.168.1.1 -top-ports 2000	Port scan the top x ports
p-65535	nmap 192.168.1.1 -p-65535	Leaving off initial port the scan start at port 1
p0-	nmap 192.168.1.1 -p0-	Leaving off end port the scan go through to port 65535

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SWILLII		Description		
-0	nmap 192.168.1.1 -O	Remote OS detection using TCP/IP stack fingerprinting		
-Oosscan-limit	nmap 192.168.1.1 -O -osscan-limit	If at least one open and one closed TCP port are not found it will not try OS detection against host		
-Oosscan-guess	nmap 192.168.1.1 -O -osscan-guess	Makes Nmap guess more aggressively		
-Omax-os-tries	nmap 192.168.1.1 -O -max-os-tries 1	Set the maximum number x of OS detection tries against a target		
-A	nmap 192.168.1.1 -A	Enables OS detection, version detection, script scanning and traceroute (Aggresive Scan)		
Service and Version Detection				
-sV	nmap 192.168.1.1 -sV	Attempts to determine the version of the service running on port		
-sV		Intensity level 0 to 9. Higher number increases		
version-intensity	nmap 192.168.1.1 -sVversion-intensity 8	possibility of correctness		
-sVversion-light	nmap 192.168.1.1 -sVversion-light	Enable light mode. Lower possibility of correctness. Faster		
-sVversion-all	nmap 192.168.1.1 -sVversion-all	Enable intensity level 9. Higher possibility of correctness. Slower		
-A	nmap 192.168.1.1 -A	Enables OS detection, version detection, script scanning, and traceroute		
NSE Scripts				
-sC	nmap 192.168.1.1 -sC	Scan with default NSE scripts. Considered useful for discovery and safe		
script default	nmap 192.168.1.1script default	Scan with default NSE scripts. Considered useful for discovery and safe		
script	nmap 192.168.1.1script=banner	Scan with a single script. Example banner		
script	nmap 192.168.1.1script=http*	Scan with a wildcard. Example http		
script	nmap 192.168.1.1script=http,banner	Scan with two scripts. Example http and banner		
script	nmap 192.168.1.1script "not intrusive"	Scan default, but remove intrusive scripts		
scriptscript-args	nmapscript snmp-sysdescrscript-args snmpcommunity=admin 192.168.1.1	NSE script with arguments		

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