



40+ Vital Nmap Commands

Every Cybersecurity Analyst Should Master

Target Specification Switch Example Description			
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 Discov	ery		
-sL	nmap 192.168.1.1-3 -sL	No Scan. List targets only	
-sn	nmap 192.168.1.1/24 -sn	Disable port scanning. Host discovery only	
-Pn	nmap 192.168.1.1-5 -Pn	Disable host discovery. Port scan only	
-PS	nmap 192.168.1.1-5 -PS22-25,80	TCP SYN discovery on port x. Port 80 by default	
-PA	nmap 192.168.1.1-5 -PA22-25,80	TCP ACK discovery on port x. Port 80 by default	
-PU	nmap 192.168.1.1-5 -PU53	UDP discovery on port x. Port 40125 by default	
-PR	nmap 192.168.1.1-1/24 -PR	ARP discovery on local network	
-n	nmap 192.168.1.1 -n	Never do DNS resolution	
Port Specific	cation		
-р	nmap 192.168.1.1 -p 21	Port scan for port x	
-p	nmap 192.168.1.1 -p 21-100	Port range	
-p	nmap 192.168.1.1 -p U:53,T:21-25,80	Port scan multiple TCP and UDP ports	
-p	nmap 192.168.1.1 -p-	Port scan all ports	
-p	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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OS Detection				
Switch	Example	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 version-intensity	nmap 192.168.1.1 -sVversion-intensity 8	Intensity level 0 to 9. Higher number increases 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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