Different usage options

Port discovery and specification
Host discovery and specification
Vulnerability scanning
Application and service version detection
Software version detection against the ports
Firewall / IDS Spoofing

Nmap + Nessus Cheat Sheet



Port Specification Options		
Syntax	Example	Description
-P	nmap -p 23 172.16.1.1	Port scanning port specific port
-P	nmap -p 23-100 172.16.1.1	Port scanning port specific port range
-р	nmap -pU:110,T:23-25,443 172.16.1.1	U-UDP,T-TCP different port types scan
-p-	nmap -p- 172.16.1.1	Port scan for all ports
-р	nmap -smtp,https 172.16.1.1	Port scan from specified protocols
-F	nmap -F 172.16.1.1	Fast port scan for speed up
-P "*"	namp -p "*" ftp 172.16.1.1	Port scan using name
-r	nmap -r 172.16.1.1	Sequential port scan

Scanning Types		
Switch/Syntax	Example	Description
-sS	nmap 172.16.1.1 -sS	TCP SYN port scan
-sT	nmap 172.16.1.1 -sT	TCP connect port scan
-sA	nmap 172.16.1.1 -sA	TCP ACK port scan
-sU	nmap 172.16.1.1 -sU	UDP port scan
-Sf	nmap -Sf 172.16.1.1	TCP FIN scan
-sX	nmap -SX 172.16.1.1	XMAS scan
-Sp	nmap -Sp 172.16.1.1	Ping scan
-sU	nmap -Su 172.16.1.1	UDP scan
-sA	nmap -Sa 172.16.1.1	TCP ACK scan
-SL	nmap -Sl 172.16.1.1	list scan
Scanning Command Syntax		

Nmap Timing Options		
Syntax	Description	
nmap -T0 172.16.1.1	Slowest scan	
nmap -T1 172.16.1.1	Tricky scan to avoid IDS	
nmap -T2 172.16.1.1	Timely scan	
nmap -T3 172.16.1.1	Default scan timer	
nmap -T4 172.16.1.1	Aggressive scan	
nmap -T5 172.16.1.1	Very aggressive scan	

Host /172.16.1.1 Discovery		
Switch/Syntax	Example	Description
-sL	nmap 172.16.1.1-5 -sL	List 172.16.1.1 without scanning
-sn	nmap 172.16.1.1/8 -sn	Disable port scanning
-Pn	nmap 172.16.1.1-8 -Pn	Port scans only and no host discovery
-PS	nmap 172.16.1.185 -PS22-25,80	TCP SYN discovery on specified port
-PA	nmap 172.16.1.185 -PA22-25,80	TCP ACK discovery on specified port
-PU	nmap 172.16.1.1-8 -PU53	UDP discovery on specified port
-PR	nmap 172.16.1.1-1/8 -PR	ARP discovery within local network
-n	nmap 172.16.1.1 -n	no DNS resolution

Scanning Command Syntax		
<pre>nmap [scan types] [options] {172.16.1.1 specification}</pre>		
Use of Nmap Scripts NSE		
nmapscript= test script 172.16.1.0/24	execute thee listed script against target IP address	
nmapscript-update-db	adding new scripts	
nmap -sV -sC	use of safe default scripts for scan	
nmapscript-help="Test Script"	get help for script	

Scan Options		
Syntax	Description	
nmap -sP 172.16.1.1	Ping scan only	
nmap -PU 172.16.1.1	UDP ping scan	
nmap -PE 172.16.1.1	ICMP echo ping	
nmap -PO 172.16.1.1	IP protocol ping	
nmap -PR 172.16.1.1	ARP ping	
nmap -Pn 172.16.1.1	Scan without pinging	
nmap -traceroute 172.16.1.1	Traceroute	

172.16.1.1 Specification

single IP scan

Version Detection			
Switch/Syntax	Example	Description	
-sV	nmap 172.16.1.1 -sV	Try to find the version of the service running on port	
-sV version-intensity	nmap 172.16.1.1 -sVversion-intensity 6	Intensity level range 0 to 9.	
-sVversion-all	nmap 172.16.1.1 -sVversion-all	Set intensity level to 9	
-sVversion-light	nmap 172.16.1.1 -sVversion-light	Enable light mode	
-A	nmap 172.16.1.1 -A	Enables OS detection, version detection, script scanning, and traceroute	
-0	nmap 172.16.1.1 -0	Remote OS detection	
Firewall Proofing			

Default/normal output	nmap -oN scan.txt 172.16.1.1	
XML	nmap -oX scanr.xml 172.16.1.1	
Grepable format	snmap -oG grep.txt 172.16.1.1	
All formats nmap -oA 172.16.1.1		
Miscellaneous Commands		
nmap -6	scan IPV6 targets	
nmap -proxies proxy : URL, proxy 2 URL	1 Run in targets with proxies	
nmap –open	Show open ports only	

Nmap output Formats

nmap 172.16.1.1 172.16.100.1	scan specific IPs
nmap 172.16.1.1-254	scan a range of IPs
nmap xyz.org	scan a domain
nmap 10.1.1.0/8	scan using CIDR notation
nmap -iL scan.txt	scan 172.16.1.1s from a file
nmapexclude 172.16.1.1	specified IP s exclude from scan
Nessus Installation and Usage	
Installation	# apt-get install nessus
Add administrator for the application	# nessus-adduser
Update components	# nessus-update-plugins
Start nessus	<pre># /etc/init.d/nessusd start</pre>
Check nessus port	# netstat -luntp or # netstat -landtp

-0 nmap 172.16.1.1 -0		Remote OS detection
	Firewall	ll Proofing
nmap	o -f [172.16.1.1]	scan fragment packets
nmap -mtu [MTU] [172.16.1.1]		specify MTU
nmap -sI [zombie] [172.16.1.1]		scan idle zoombie
nmap -source-port [port] [172.16.1.1]		manual source port - specify
nmap -data-length [size] [172.16.1.1]		randomly append data
nmap -randomize-hosts [172.16.1.1]		172.16.1.1 scan order randomization
nmap -badsum [172.16.1.1]		bad checksum

Nessuscli		
nessus -h	Display help	
nessus -q	Run in batch mode	
nessuslist-policies	List policies included in .nessus configuration file	
nessuslist-reports	List report names included in .nessus configuration file	
nessus −p	List available plugins in the server	
nessuspolicy-name (policy name)	Specify policy to use when a scan initiate in command line	
nessus -T (format)	Specify output report format (html, text, nbe, nessus)	
nessustarget-file (file name)	Use scan targets specified in the file instead of default .nessus file	
nessus -x	Do not check for SSL certificates	

	Nessus	Server Commands
	nessus-service -a (ip address)	Listens to specified IP address only
]	nessus-service -c (Config file name)	Set to use server side configuration file instead of default configuration file
	nessus-service -D	Set server mode to background run
	nessus-service -h	List summary of nessus commands
	nessus-serviceipv4-only	Listen to IPV4 only
	nessus-serviceipv6-only	Listen to IPV6 only
	nessus-service -K	Configure master password for nessus scanner
	nessus-service -p	Set server to listen to client specified port rather than default port 1241
	nessus-service -q	Run in quiet mode

nmap 172.16.1.1