Nmap Basics - One Page Cheat Sheet

Nmap Command Format: nmap [Scan Type(s)] [Options] {target}
Nmap Script Scan Format: nmap --script [Script(s) Name] {target}

Help			Target	nmap {target}
<u>All OS</u>	<u>All OS</u>		Host name - FILESERVER	
nmap	Help		FQDN - scanme.nmap.org	
nmap -h	Same as above		IP - 192.168.1.1	
nmap -V	Version information		IPs - 192.168.1.1 192.168.1.2	
nmapscript-help <script name=""></td><td colspan=2>Range - 192.168.1.1-50</td></tr><tr><td colspan=2><u>Linux/Unix</u></td><td colspan=2>CIDR - 192.168.1.1/24</td></tr><tr><td>man nmap</td><td>nmap Man Page</td><td></td><td colspan=2>DNS CIDR - nmap.org/24</td></tr><tr><td>man zenmap</td><td>Zenmap Man Page</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>Ports</td><td>nmap -p</td></tr><tr><td colspan=2>Scan Techniques</td><td colspan=2>nmap -p 80</td></tr><tr><td>nmap -sS</td><td colspan=2>TCP SYN port scan (Default)</td><td colspan=2>nmap -p 21-3389</td></tr><tr><td>nmap -sT</td><td>TCP Full-connect port</td><td>t scan</td><td colspan=2>nmap -sU -p 1-1000</td></tr><tr><td>nmap -sU</td><td colspan=2>sU UDP port scan</td><td colspan=2>nmap -sS -sU -p T:21-25,80,U:53-389</td></tr><tr><td>nmap -sO</td><td colspan=2>IP Protocol scan</td><td>nmap -F</td><td></td></tr><tr><td colspan=2>Host Discovery</td><td colspan=2>Service/Version Detection</td></tr><tr><td>nmap - sL</td><td>List scan. Reverse DN</td><td>S lookup.</td><td>nmap -sV</td><td>App & Service Versions</td></tr><tr><td>nmap -sn</td><td>Ping scan/sweep. Do</td><td>esn't scan ports.</td><td>nmap -A</td><td>Aggressive / Advanced</td></tr><tr><td>nmap -Pn</td><td>No ping scan. Only so</td><td>cans ports.</td><td colspan=2>nmapversion-intensity <level></td></tr><tr><td colspan=2>OS Discovery</td><td colspan=2>Output (e.g. nmap -oN <filename>)</td></tr><tr><td>nmap -O</td><td>Basic operating syste</td><td>m discovery</td><td>nmap -oN</td><td>Normal output to file</td></tr><tr><td colspan=2>nmap -Oosscan-guess Will guess, Gives % certainty</td><td>nmap -oX</td><td>XML output to file</td></tr><tr><td colspan=2>nmapscript smb-host-discovery</td><td>nmap -oG</td><td>Grepable output to file</td></tr><tr><td></td><td></td><td></td><td>nmap -oA</td><td>Three output formats</td></tr><tr><td colspan=2>NSE Script Scans (located in Nmap directory \scripts)</td><td>nmap -v</td><td>More detail</td></tr><tr><td>nmap -sC</td><td colspan=2>nmap -sC Scans with all scripts labeled default</td><td>nmap -d</td><td>Debugging information</td></tr><tr><td colspan=5>nmapscript <category></td></tr><tr><td colspan=3>nmapscript <script name></td><td colspan=2>Misc. Options & IDS/Firewall Evasion</td></tr><tr><td></td><td></td><td></td><td>-6</td><td>IPv6 scanning (put first)</td></tr><tr><td colspan=3>Timing and Performance (time in ms, s, h)</td><td>-D <decoy></td><td>Decoy cloaking</td></tr><tr><td>nmap -T0</td><td colspan=2>Paranoid. IDS evasion, very slow.</td><td>-f <val></td><td>Fragment packets</td></tr><tr><td>nmap -T1</td><td colspan=2>Sneaky. IDS evasion, slow.</td><td>-S <ip></td><td>Spoof source</td></tr><tr><td>nmap -T2</td><td colspan=2>Polite. Use if machines or network slow</td><td>-g <#></td><td>Use source port</td></tr><tr><td>nmap -T3</td><td colspan=2>Default. If using, just leave off.</td><td></td><td></td></tr><tr><td>nmap -T4</td><td>Aggressive. Fast, assi</td><td>umes fast network</td><td></td><td></td></tr><tr><td>nmap -T5</td><td colspan=5>nmap -T5 Insane. Very fast, less accurate results</td></tr><tr><td colspan=5>nmaphost-timeout <time> Give up on target after this amount of time</td></tr><tr><td colspan=4>nmapscan-delay <time> Adjust delay between probes</td><td></td></tr><tr><td colspan=5>nmapmin-rate <# packets> Send packets no slower than this per second</td></tr></tbody></table></script>				