

Professor Messer's Quick Reference Guide to

	SCAN OPT	ON SUMMARY				PING O
	SCAN OPTION SUMMARY Requires Identifies Identifies				ICMP Echo Request Ping -PE,	
Scan Name	Command Syntax	Privileged	TCP	UDP Ports	TCP ACK Ping	-PA[po
TCP SYN Scan	-sS	Access YES	Ports YES	NO	TCP SYN Ping	-PS[po
TCP connect() Scan	-sT	NO	YES	NO	UDP Ping	-PU[po
FIN Stealth Scan	-sF	YES	YES	NO	ICMP Timestamp Ping	-PP
Xmas Tree Stealth Scan	-sX	YES	YES	NO	ICMP Address Mask Ping	-PM
Null Stealth Scan	-sN	YES	YES	NO	Don't Ping	-P0, -
Ping Scan	-sP	NO	NO	NO	Require Reverse	-R
Version Detection	-sV	NO	NO	NO	Disable Reverse DNS	-n
UDP Scan	-sU	YES	NO	YES	Specify DNS Servers	dns-
IP Protocol Scan	-s0	YES	NO	NO	REAL-TIN	IE INFOR
ACK Scan	-sA	YES	YES	NO	Verbose Mode	ve
Window Scan	-sW	YES	YES	NO	Version Trace	ve
RPC Scan	-sR	NO	NO	NO	Packet Trace	pa
List Scan	-sL	NO	NO	NO	Debug Mode	de
Idlescan	-sI	YES	YES	NO	Interactive Mode	in
FTP Bounce Attack	-b	NO	YES	NO	Noninteractive Mode	no
	HOST AND	DORT ORTIONS			OPERATIN	G SYSTEI
		PORT OPTIONS			OS Fingerprinting	
Exclude Targets		kclude <host< td=""><td></td><td></td><td>Limit System Scanning</td><td></td></host<>			Limit System Scanning	
Exclude Targets in File	e:	kcludefile <	exclude_file	;>	More Guessing Flexibility	
Read Targets from File		-iL <inputfilename></inputfilename>			Additional, Advanced, and Aggressive	
Pick Random Numbers for	Targets -iR	<num_hosts></num_hosts>				ERSION D
Randomize Hosts	ra	andomize_hos	ts, -rH		Version Scan	
No Random Ports	-r				Don't Exclude Any Ports	
Source Port	s	ource-port <	portnumber>		Set Version Intensity	
Specify Protocol or Port Nu	ımbers -p	<pre><port_range></port_range></pre>			Enable Version Scanning L	.iaht
Fast Scan Mode	-F				Enable Version Scan All	J
Create Decoys	-D ◆	<pre><decoy1 [,de<="" pre=""></decoy1></pre>	cov2][,ME],.	>	PLIN	I-TIME IN
Source Address		<pre>IP address></pre>			Display Run-Time Help	
Interface		<pre><interface></interface></pre>			Increase / Decrease Verbo	sitv
List Interfaces		flist			Increase / Decrease Debug	
List interfaces					Increase / Decrease Packe	,
	TUNING AND	TIMING OPTIO	NS		Any Other Key	
Time to Live	t·	tl				OGGING
Use Fragmented IP Packet	s -f,	-ff			Normal Format	-oN <
Maximum Transmission Ur	nitm	tu <databyte< td=""><td>s></td><td></td><td>XML Format</td><td>-oX <</td></databyte<>	s>		XML Format	-oX <
Data Length	da	ata-length <	databytes>		Grepable Format	-oG ∢
Host Timeout	h	ost-timeout	- <millisecond< td=""><td>ls></td><td>All Formats</td><td>-oA <</td></millisecond<>	ls>	All Formats	-oA <
					Script Kiddie Format	-oS <
Initial Round Trip Timeout		nitial-rtt-t			Resume Scan	res
Minimum Round Trip Timed	outm:	in-rtt-timeo	ut <millised< td=""><td>conds></td><td>Append Output</td><td>apı</td></millised<>	conds>	Append Output	apı
Maximum Round Trip Time	eoutm	ax-rtt-timeo	ut <millised< td=""><td>conds></td><td>MISC</td><td>ELLANE</td></millised<>	conds>	MISC	ELLANE
Maximum Parallel Hosts pe	er Scanma	ax-hostgroup	<number></number>		Quick Reference Screen	
Minimum Parallel Hosts per Scan		min-hostgroup <number></number>			Nmap Version	
Maximum Parallel Port Scans		max-parallelism <number></number>			Data Directory	
Minimum Parallel Port Scar		in-paralleli			Quash Argument Vector	
		_			Define Custom Scan Flags	
	rohoo					
Minimum Delay Between P		can-delay <m< td=""><td></td><td></td><td>(Uriel) Maimon Scan</td><td></td></m<>			(Uriel) Maimon Scan	
Maximum Delay Between P Timing Policies		can-delay <m< td=""><td></td><td></td><td>(Uriel) Maimon Scan IPv6 Support</td><td></td></m<>			(Uriel) Maimon Scan IPv6 Support	

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PING OPTIONS								
ICMP Echo Request Ping	-PE, -PI							
TCP ACK Ping	-PA[portlist], -PT[portlist]							
TCP SYN Ping	-PS[portlist]							
UDP Ping	-PU[portlist]							
ICMP Timestamp Ping	-PP							
ICMP Address Mask Ping	-PM							
Don't Ping	-PO, -PN, -PD							
Require Reverse	-R							
Disable Reverse DNS	-n							
Specify DNS Servers	dns-servers							
REAL-TIME INFORMATION OPTIONS								
Verbose Mode	verbose, -v							
Version Trace	version-trace							
Packet Trace	packet-trace							
Debug Mode	debug, -d							
Interactive Mode	interactive							
Noninteractive Mode	noninteractive							
OPERATING	SYSTEM FINGERPRINTING							
OS Fingerprinting	-0							
Limit System Scanning	osscan-limit							
More Guessing Flexibility	osscan-guess,fuzzy							
Additional, Advanced, and Aggressive -A								
VERSION DETECTION								
Version Scan	-sV							
Don't Exclude Any Ports	allports							
Set Version Intensity	version-intensity							
Enable Version Scanning Lig	htversion-light							
Enable Version Scan All	version-all							
RUN-TIME INTERACTIONS								
Display Run-Time Help ?								
Increase / Decrease Verbosi	ty v/v							
Increase / Decrease Debugg	ing d/D							
Increase / Decrease Packet	Tracing p / P							
Any Other Key	Print Status							
LC	OGGING OPTIONS							
Normal Format	-oN <logfilename></logfilename>							
XML Format	-oX <logfilename></logfilename>							
Grepable Format	-oG <logfilename></logfilename>							
All Formats	-oA <basefilename></basefilename>							
Script Kiddie Format	-oS <logfilename></logfilename>							
Resume Scan	resume <logfilename></logfilename>							
Append Output	append-output							
MISCELLANEOUS OPTIONS								
Quick Reference Screen	help, -hversion, -V							
Nmap Version	version, -vdatadir <directory name=""></directory>							
Data Directory	ugladir Solrectory name>							
Quash Argument Vector	-d							

-sM -6

--scanflags <flagval>

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Identifying Open Ports with Nmap



