Post - Connection Aftachs Noorks with WiA or w ethernet Can gather more info intercept data Mocify data on the fly Now we'll install a windows VM for our testing. Information Gathering lets discover all devices connected to the same network. (works for all networks) # netdiscover -r 10.0.2.1/24 your range of access (sheet inet of ethe /your networks)	
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	# netdiscover -r 10.0.2.1/24
your range of access	
STORE THE STATE OF ST	your range of access (sheck inet of atho / your notwork)



	Subject:	
9	A To connect to a network thru Wifi, you'll need a	
•	wireless adapter. With that you can work with real networks.	
3	- Parties and as the other over they exclude it	_
2	Network Mabbing	
	use NMAP to gather more information	
2	L'> like open ports, operating system, etc.	
	(Zenmap in Kali (Zenmap = NMap + GUI)	
7	- In target, give the whole range.	
The same	Q 2 192.168.1.1/24	_
À	1 Profile: See Ping Scan	_
Th-	-> prings every ip in the range & shows which on	L
A	2 Quick Scan	_
A		
À	-> also shows the open ports on each ip that is	
2	3 Buick Scan plus	
9	-> Shows the OS running	_
3	-> shows device type	_
	-> shows program & program version running on	_
9	open ports	
-		
-	Alf you sell an apple dovice that has sch running on it	
-	You can try to connect to it using pan = raipine?.	
7		
3	Man-in-the-Middle Attacks	
3		
	> intercepting connection to sit in the middle	
0	> can see any transferred data.	_

can be done by many methods.

	PAGE NO:
Subject :	DATE:
(1) ARP Spoofing	
any data, will now flow through th	e hacker.
Access Hadler	Victim ?
Point	
A ARR / Address Reserves Or and a	•
ARP (Address Resolution Protocol) allow	os ustolink
IP addresses to MAC addresses.	•
> do 'arp-al to see how ips are maps	sed to macaddres.
we need to exploit the ARP protocol.	•
IP of victim	Lare the
-> we'll tell the victim that v	20 20 1.4
AP.	de wie the
Why ARP spoof is possible?	· · ·
S clients accept responses who a vo	aveit a
S clients toust responses who av	cuification.
	•
* Lets do the attack now.	e \
Using arpspoof	•
-> simple & reliable	~
-> ported to most operating systems	
# orpspoof -j etho -t 10.0.2.7	get (get by doing)
the orner pool = culot target	yer arp - a on
11019SP007) et 10.0.2.7	10.().2.)
name of Interface	ip of kali
#arpspoof -i etho -t 10.0.2.1	10 0 2 7
	[U.U.B.+
A These two must be run to redirect	traffic for
These two must be run to redirect Client as well as router	and the diam

	COLOT NO.
-	Subject:
	A This attack will work the same way against wife,
	ethernet or wheleis adapters.
4	-> Since your computer (kali) wint the router, there is
CW CW	-> Since your computer (kau) unt the router, there is a stoppage of requests. Do port forwarding.
	- Do port forwarding
	# echo 1 > /proc/sys/net/ipvy/ip-forward
	At Other than appspoof, we can also use bettercap.
-	Using Beltercap
	Solter than arpspoof.
	Can be used to capture data
	bypaus https
	ans spoofing
	c) etc
20	interface
10	Forun: # bettercap - iface etho
	= Horizon
The state of the s	* There are many moduler that we can use (type
1	help to see). You can check how to use that module
	by doing help Ename of module?
0	and come of mount
	iluts use net probe:
	(discovers clients connected to the network)
	(alsovins charas connected to the network)
	The Heat chow to get a tabulated data at 12 MAC
	S names etc for the devices probed.
P	1> VIUNIES TIO 700 INC GENTLES PIUDEY.
3	A Now lets do arpspoofing using bettercap.
3	

	PAGE NO.:
Subject :	DATE:
ARP Spoofing using Bettercap	
	o o o o o o o o
A Become the Man-in-the-middle first. So the	at we can
redirect output input	
we can turn on arp. spoof-fulld	ublex so that o
It will spoof both router & target.	2
o we do:	
# set arp. spoof fullduplox	
-> Now we want to specify targets.	
# Set arp. spoof. targets	10.0.2-7
	9 target 11
A Now we can run the attack:	(multiple supported)
# arp-spoof= on	10
- Now we are in the middle of the conne	ection. And:.
we can now spy.	
* tell betteriap to capture & analyse t	he data:
net-sniff on (wont work . ?
	agount https)
-> Now any activity done on target can be	saved on kali.
	2
A To do their things, we had to do many	things (many)
Steps). Its inefficient We'll use a script.	
-> we'll make a fext file to do this auto make	hically.
· net probe on	2
· set arp-spoof-fullduplex	true
· Set arp-spoof-targets	23
arp-spoof on	•
· net snift on	•
'	6
A To sun it, quit bettercap.	
, ,	-

-9 -9	PAGE NO.:
4	Subject:
	* & do:
~	# bettercap help (to learn)
-3	A me are goma use caplete to sun our script.
	+ bettercap - 1 face etho - caplet spoof cap
	And thats it, managed to intercept data successfully.
	A We need to bypass HHPS to do this for https sites also.
-	* HTTPS
_	
	> HTTP cends dota as plain-text
	HTTPs encrypts the data using TLS 8SL.
4	An interceptor needs to decrypt data even if he become
17	MITM. (man-in-the-middle)
11	To bypais this, we need to downgrade HTTPS to HTTP.
- A	> In our spoof caplet, do:
<u> </u>	-> remove:
A	-> add: Set net. eniff. local true
	-> then turn net snift on.
3	
1	* Lets bypaus https to http now.
	-> Go to to terminal & run our spoof-cap.
Ma	-> caplets. show will give you all available caplets.
1	-> we will run hetchijack captet.
9	
-) # hstshijack [hstshijack
	enow nttps is downgraded to http.
	More famous websites have an additional security layer:
The state of the s	hots. Only https is sent or received.
THE STATE OF THE S	-> earlier we were oring est stripping.
	U 'V

PAGE NO.: DATE:
Subject:
* The only practical sola currently is to make the browser
think it loads and cornect site but to load
another website.
replace all links for hote websites with similar links
In hatshijack capiet file, you'll cee targete & there
replacements. You can change them.
A for chrome, make sure to input the website in the
HSTShijack caplet.
-> Having seame DNS disabled is a good feature because
MS then isn't encrypted. (for hocking)
* When any website is requested, its down it is sent to
a drs server that returns the ip address of the server
hosting that website-
* When we are MITM, we can redirect usus to
another dus server nother than a secure one.