# COMP 8505 ASSIGNMENT 4 TESTING DOC

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# Introduction

The purpose of this assignment is to become familiar with DNS spoofing and ARP poisoning. We DNS spoof by using a man in the middle attack (arp posion). We perform ARP spoofing by connecting to the authenticated IP address and thus begin receiving information that was intended for the victim machine. Anything the victim machine receives will first go through us. For this assignment, we perform DNS spoofing by establishing a connection with the victim machine and the router and begin receiving all packets destined for the victim. Instead of sending the packets that the victim machine required, we send them our updated packets which leads the machine back to an IP of our choice (our own website for this assignment). If the user were to access, for example, <a href="www.yahoo.com">www.yahoo.com</a>, we would receive the response from the router and craft our own packet to send back to the victim machine to direct them to our website being hosted on our server..

# **Usage**

Before running the program, ensure you are the root user and have the zip folder stored somewhere on your computer. Navigate to the zip/tar file and extract it to a location of your choice. Go to the extracted files location.

Inside the folder are 3 files, the ARP poison file, DNS spoofing file, and the config file. Open the config file and enter in each of the following:

Mac address of your machine
The router's mac address
The target machine's mac address
Your IP
The router IP
IP of the target machine

Save the contents of the file. In command line, navigate to the folder containing the files and type the following:

#### #python3 dnsSpoofer

After running the DNS spoofing program the victim machine will now have his/her websites spoofed. If they were to type <a href="www.yahoo.com">www.yahoo.com</a>, it would lead their machine to your computer's IP.

For better testing purposes, ensure you have httpd ready and running.

# Testing

Test #	Description	Expected Result	Result (Pass/Fail)
1	Navigate to source folder.	User can successfully run	Pass
	Open the config file and enter	the DNS spoofing	
	in the correct information.	program, making requests	
	Save the file and run the DNS	from victim to our IP	
	spoofing program.		
2	Test for failure:	User should not be able to	Pass
	Attempt to run the DNS	successfully DNS spoof the	
	spoofing program with	victim.	
	incorrect config file		
	information (Incorrect MAC)		
3	Run the DNS program with	Target victim is spoofed to	Pass
	correct config file. Test with	our IP's website	
	victim website going to		
	nba.com		
4	Run the DNS program with	Target victim is spoofed to	Pass
	correct config file. Test with	our IP's website	
	victim website going to		
	baidu.com		
5	Run the DNS program with	Target victim is spoofed to	Pass
	correct config file. Test with	our IP's website	
	victim machine by going to		
	tianya.cn		_
6	Run the DNS program with	Target victim is spoofed to	Pass
	correct config file. Test with	our IP's website	
	victim machine by going to		
-	tribunnews.com	Townsky iskins in an anti-day	Dana
7	Run the DNS program with	Target victim is spoofed to our IP's website	Pass
	correct config file. Test with	our ip's website	
	victim machine by going to sina.com.cn		
8	Run the DNS program with	Target victim is spoofed to	Pass
0	correct config file. Test with	our IP's website	F 033
	victim machine by going to	Out IF 5 WEDSILE	
	soho.com		
9	Test for failure:	Victim machine should be	Pass
,	Attempt to run DNS spoofing	able to go to their	1 433
	without DNS spoofing	requested website with	
	running.	no redirection	
L	i uiiiiiig.	no redirection	<u> </u>

# **Screenshots**

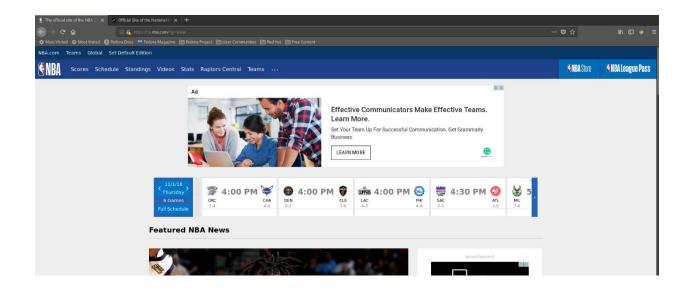
#### Test #1

```
[ARP]
mac = 98:90:96:c6:e5:75
rmac = 44:d9:e7:95:e4:9f
tmac = 98:90:96:dc:e4:a8
ip = 192.168.0.112
rip = 192.168.0.20

09:35:35(-)root@localhost:Desktop$ python3 dnsSpoof.py
Spoofing started
```

# Test #2

```
[ARP]
mac = 98:90:96:c6:e5:75
rmac = 44:d9:e7:95:e4:9f
tmac = 98:90:96:dc:e4:a5
ip = 192.168.0.112
rip = 192.168.0.20
```



#### Test #3

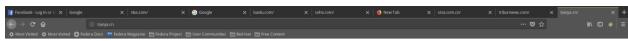


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#### Test #4



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# Test #6



#### Test #7



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# Test #8



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