REPORT ON TRAINING PROJECT

SUMMARY

In this project we have demonstrated how to find vulnerability in a website And how to exploit it using some softwares and the knowledge we gained From the online course of Ethical Hacking. we have used nmap, wafw00f Macchanger, anonsurf and sqlmap tools.

Below is the procedure of how we hack a vulnerable website without Compromising our physical address:

(1) changing mac address:

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I hide my mac address by using the commands :

Sudo ifconfig wlan0 down



Sudo macchanger -r wlan0



Sudo Ifconfig wlan0 up



(2) changing IP address:

The second thing that I did to become completely anonymous on internet is Changing my real ip address with a fake one.

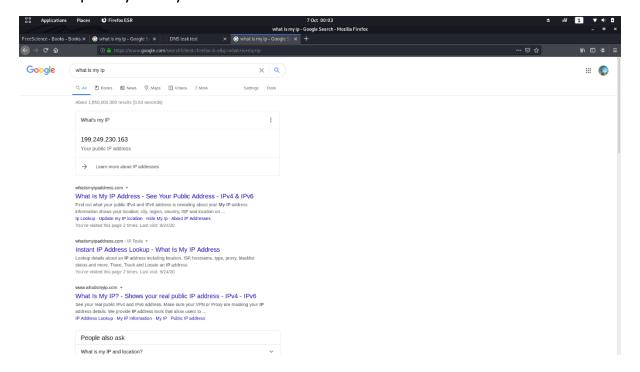
I did that by using a script called anonsurf.

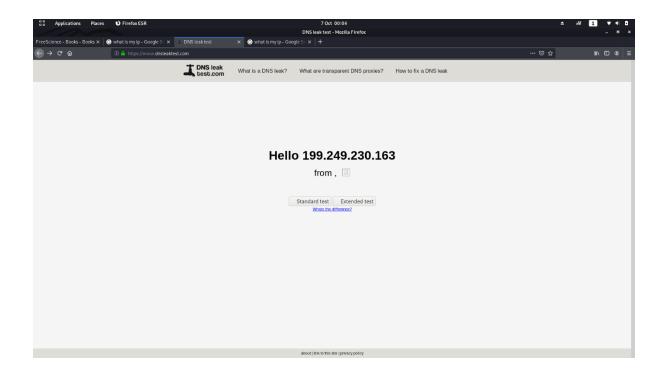




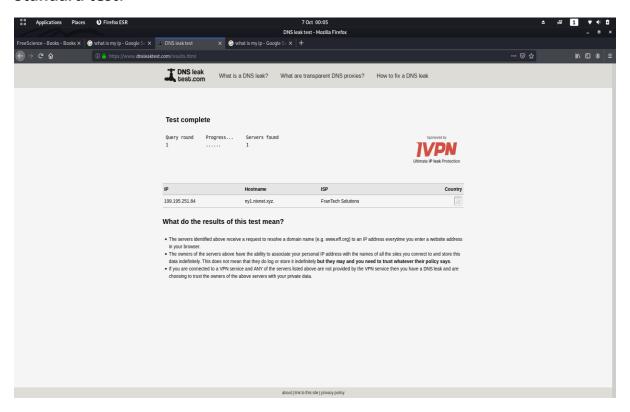
In order to verify that I was completely anonymous and there was no DNS(Domain Name System) leak (DNS converts domain names into ip)

I went to a site called dns-leak. Where I performed both the standard and advanced tests and i succeded in both the tests. Then I was sure that now I'm completely anonymous on internet.

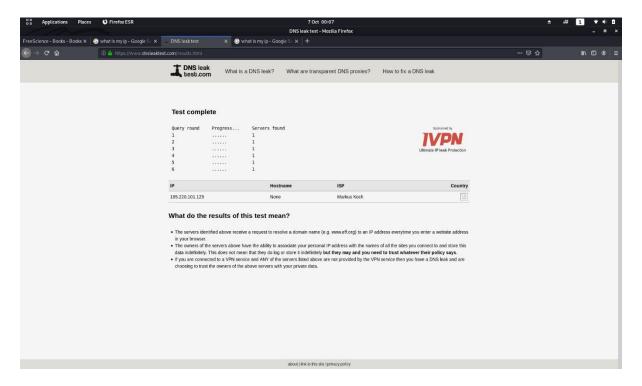




Standard test:



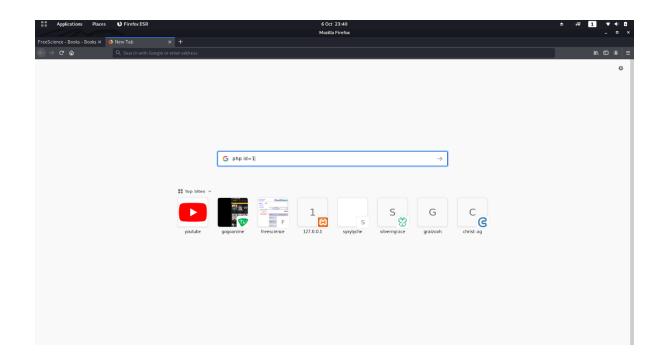
Advanced test:

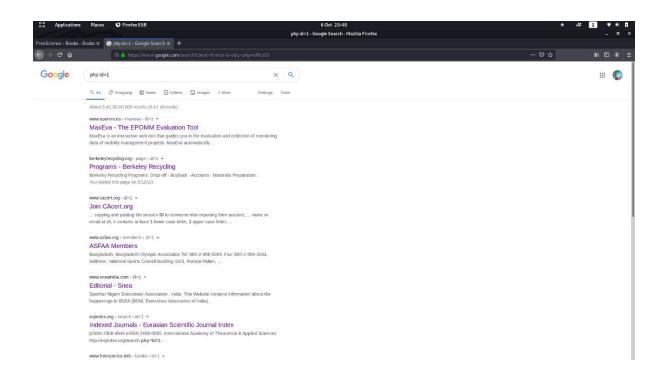


(3) Searching for vulnerable website:

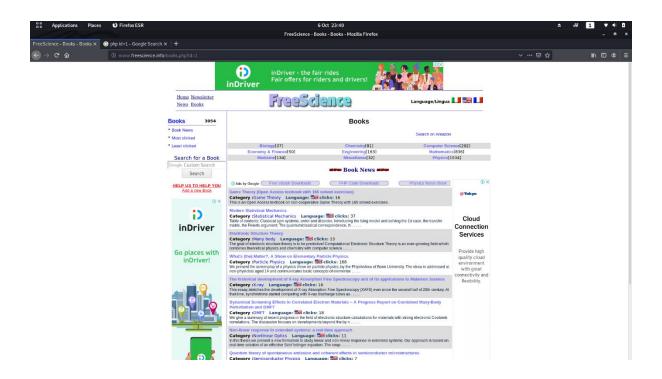
The next thing that I did was search for a vulnerable website. To do that I used a simple google dork for finding sites that might be vulnerable to sql Attacks.

Google dork: php id=1

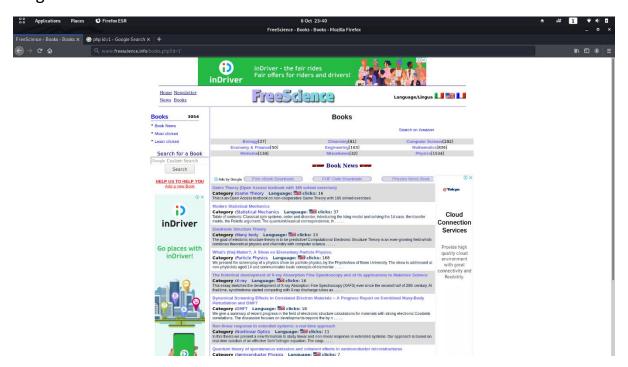




Then I opened a site whose url had id=1 in the end.



Then in order to check if this site was vulnerable to sql attack or not, I put a Single inverted comma in the end of url.

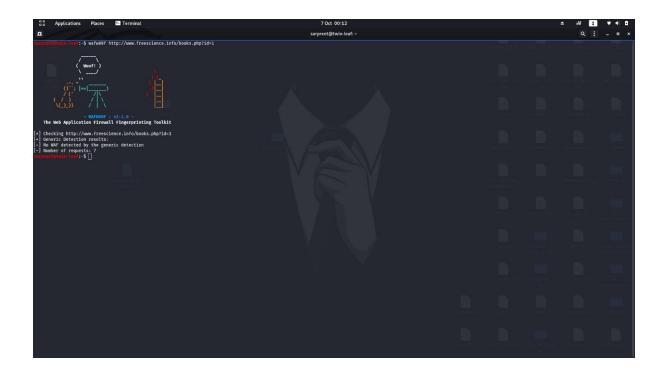


And it returned a string showing the error message which was a clue for me That this site is vulnerable.



(4) Firewall Detection:

At this point we knew that the site was vulnerable. now we needed to check If the website was under some kind of WAF or not. For that we used a tool Called "wafw00f" whose purpose is to tell if the given website has some sort Of firewall protection or not.



(5) exploiting the target:

Since the website didn't had any kind of firewall activated so the next task was

To use different queries to exploit the vulnerability of the site.

For this we used a tool called "sqlmap" which automated the task of executing Different queries against the website. It has lot of other useful features also.

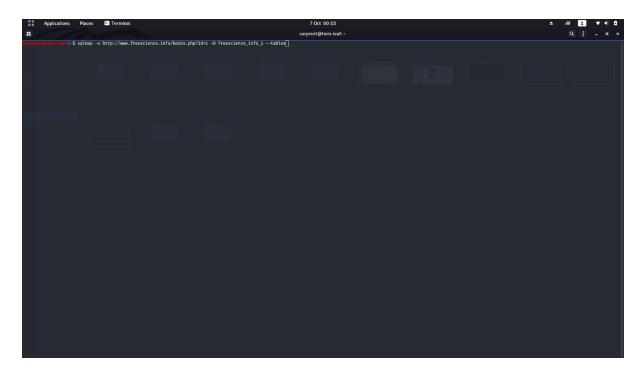


Sqlmap; using different queries to exploit target database.

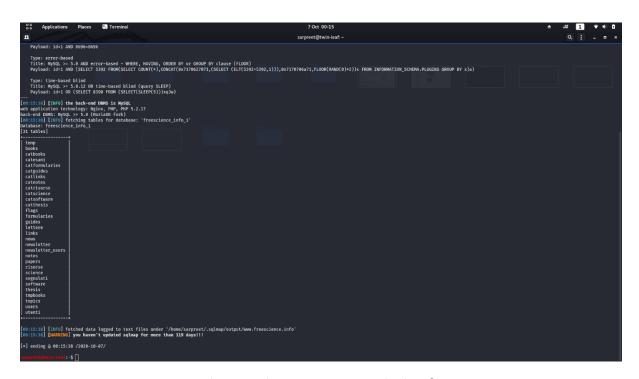
After the completion of exploitation we've got two databases:



Next thing we did was finding any sensitive indormation within database like User_names or passwords etc... by accessing the databases.

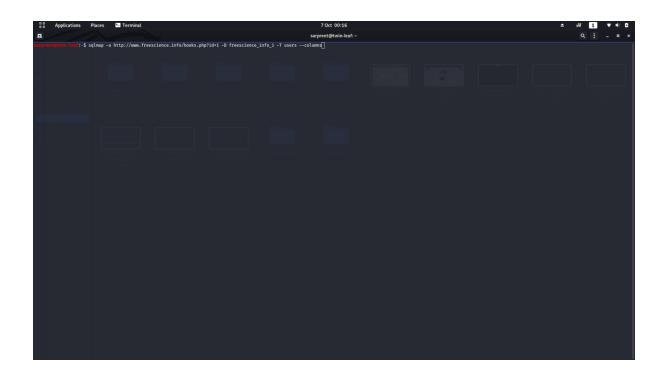


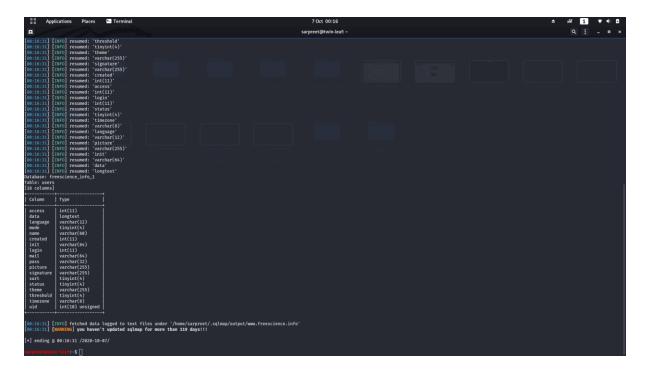
Reading the content of database named "freescience_info_1"



Displaying the content in tabular form.

Now there is an interesting field named "users". So we checked it.





And this was what we got.

There were some fields which could contain sensitive info like name or pass.

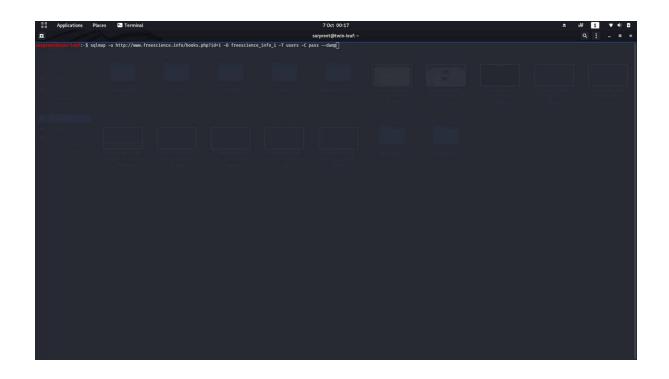
So next we opened name field.

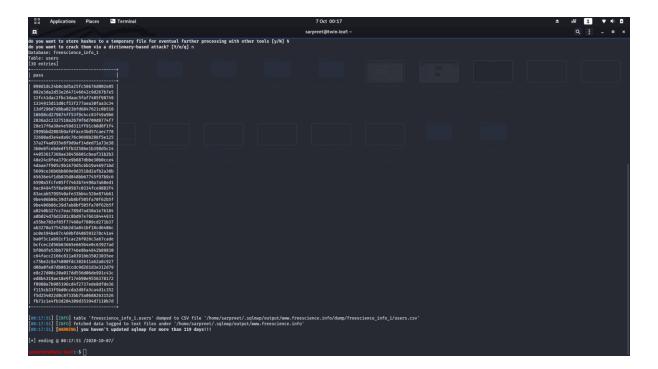




And we got all the user names on this website.

Next was pass field.





And we got all the passwords of those users. They are hash encrypted. So if we Crack admin's password then we can get access to the website as admin.

Sqlmap did install a back-door when the payload successfully exploited the website. Which is helpful if we want to gain access of website any time we want.

