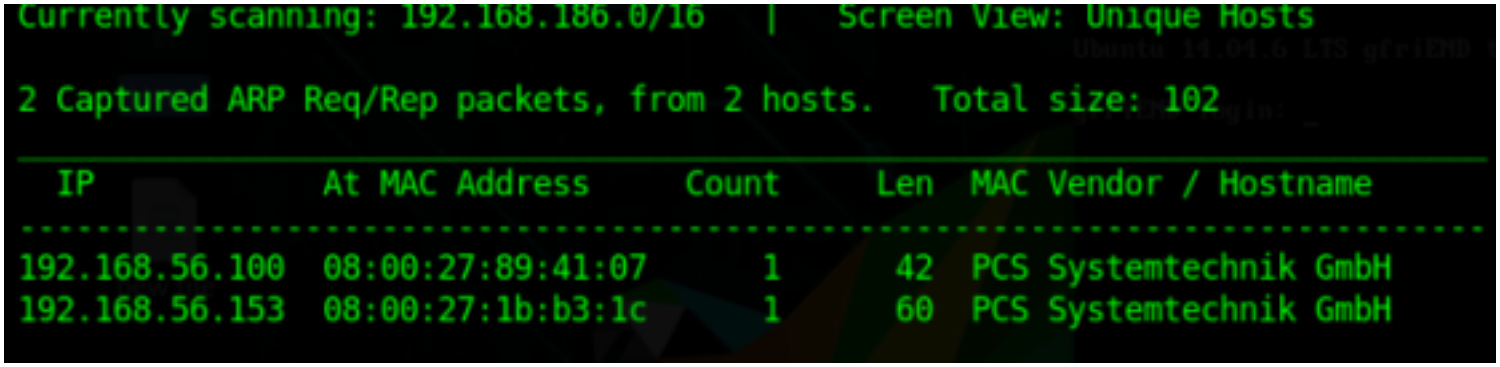
Me and My Girlfriend 1

Me and My girlfriend is a great boot2root challenge. This machine is the first in the series . This VM tells us that there are a couple of lovers namely Alice and Bob, where the couple was originally very romantic, but since Alice worked at a private company, "Ceban Corp", something has changed from Alice's attitude towards Bob like something is "hidden", And Bob asks for your help to get what Alice is hiding and get full access to the company!
Main goal is to identify user flag and rootflag.
The level of the VM is easy. This VM was created by TW1C3

Link to download- https://www.vulnhub.com/entry/me-and-my-girlfriend-1,409/

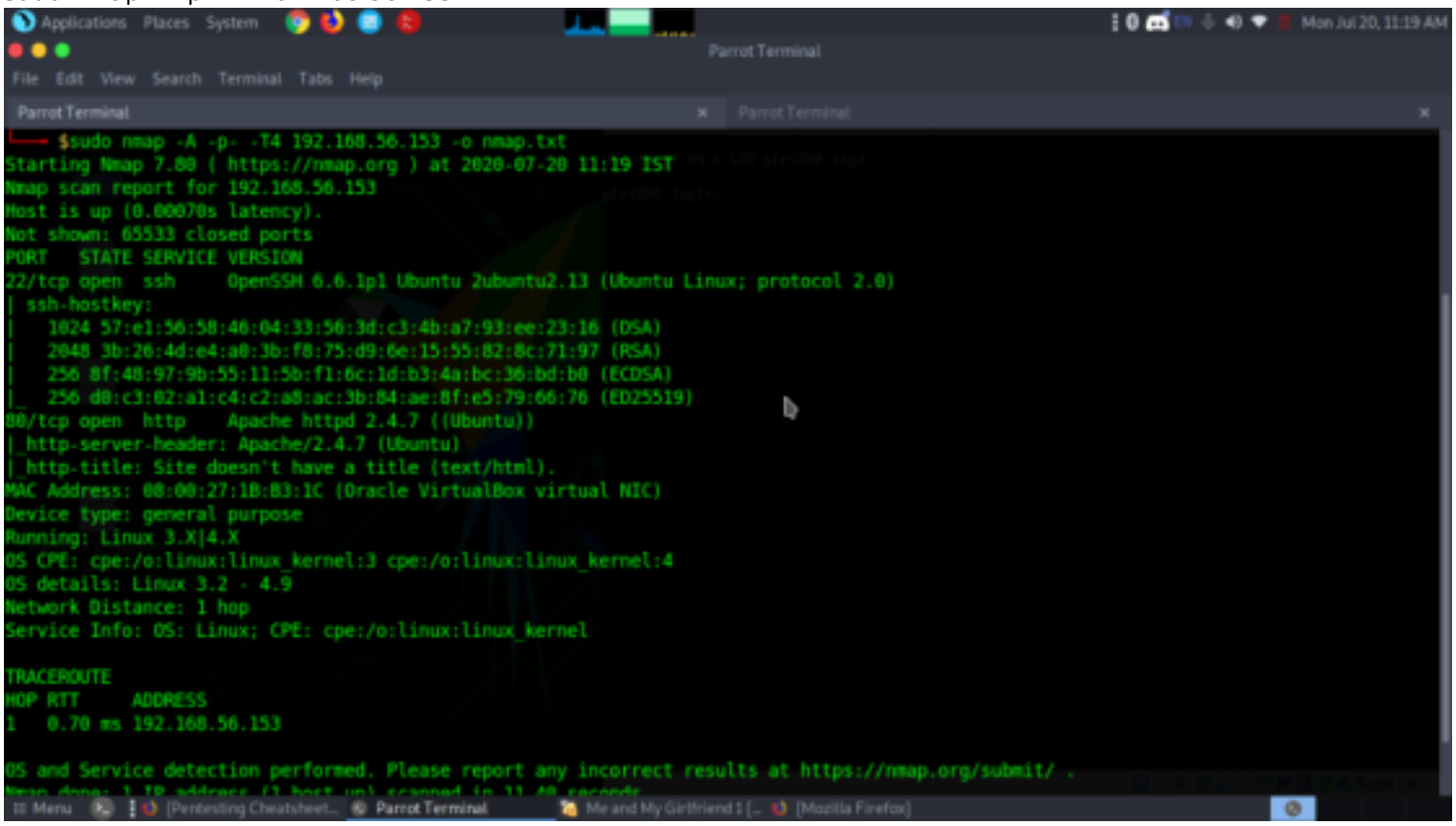
Information Gathering

Let's start by identifying the IP of our target using netdiscover
sudo netdiscover -i vboxnet0



Target IP - 192.168.56.153

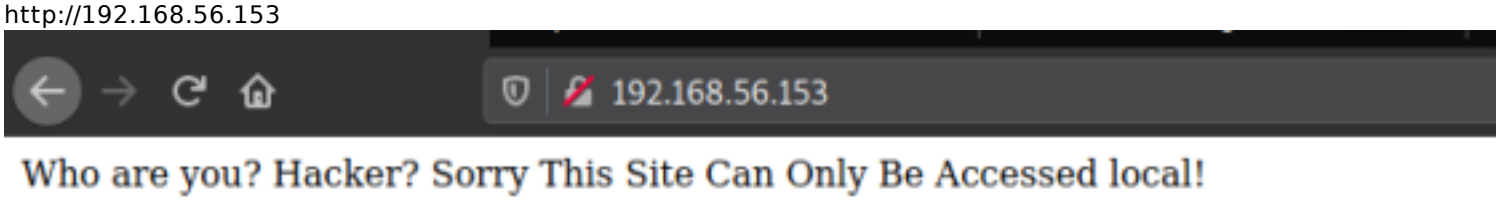
Now let's find open ports,services,os,version,host, etc by nmap
sudo nmap -A -p- -T4 192.168.56.153



From the nmap scan we got to know there are two open ports.
22(ssh)
80(http)

Enumeration

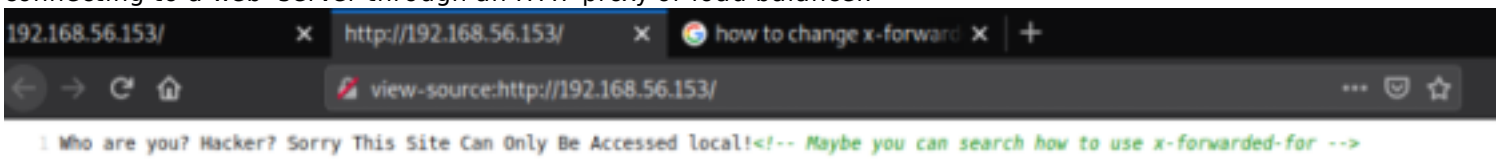
let's start by enumerating from port 80
http://192.168.56.153



Who are you? Hacker? Sorry This Site Can Only Be Accessed local!

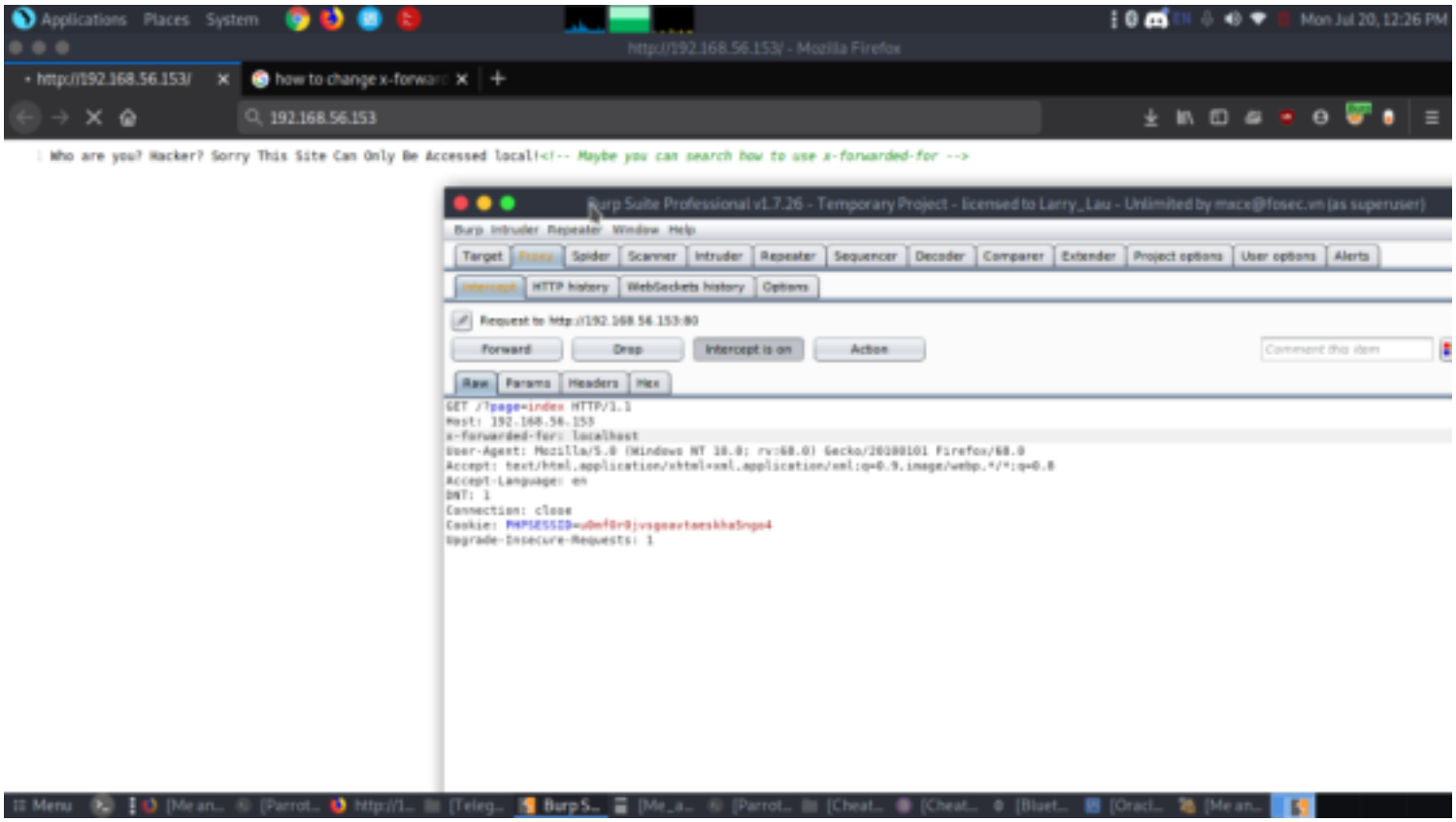
the webpage just displayed some sentences which didn't lead us to anywhere. Then when checked the source code of the page it gave us a hint pointing to use x-forwarded-for.

The X-Forwarded-For HTTP header field is a common method for identifying the originating IP address of a client connecting to a web server through an HTTP proxy or load balancer.

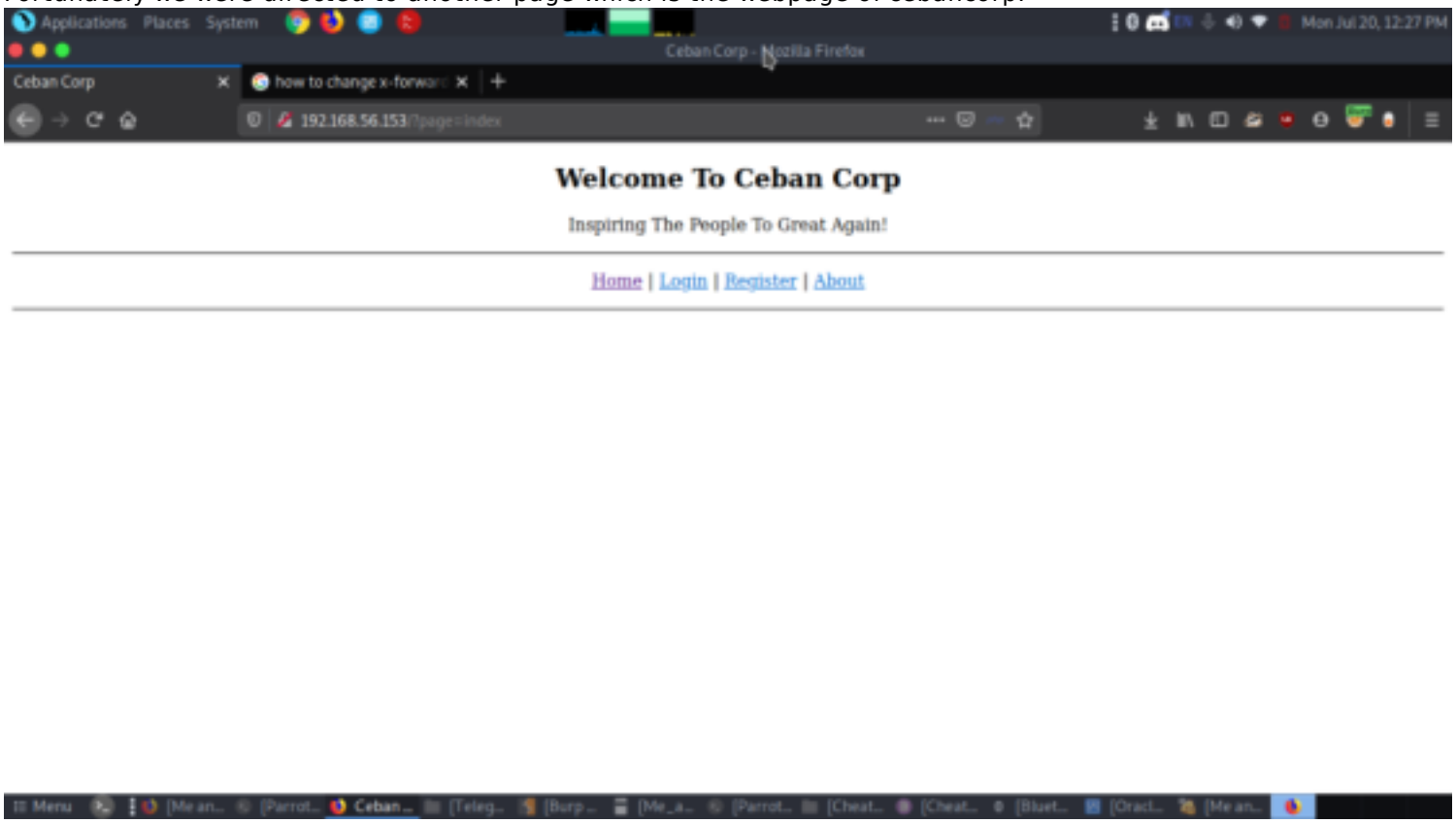


Exploitation

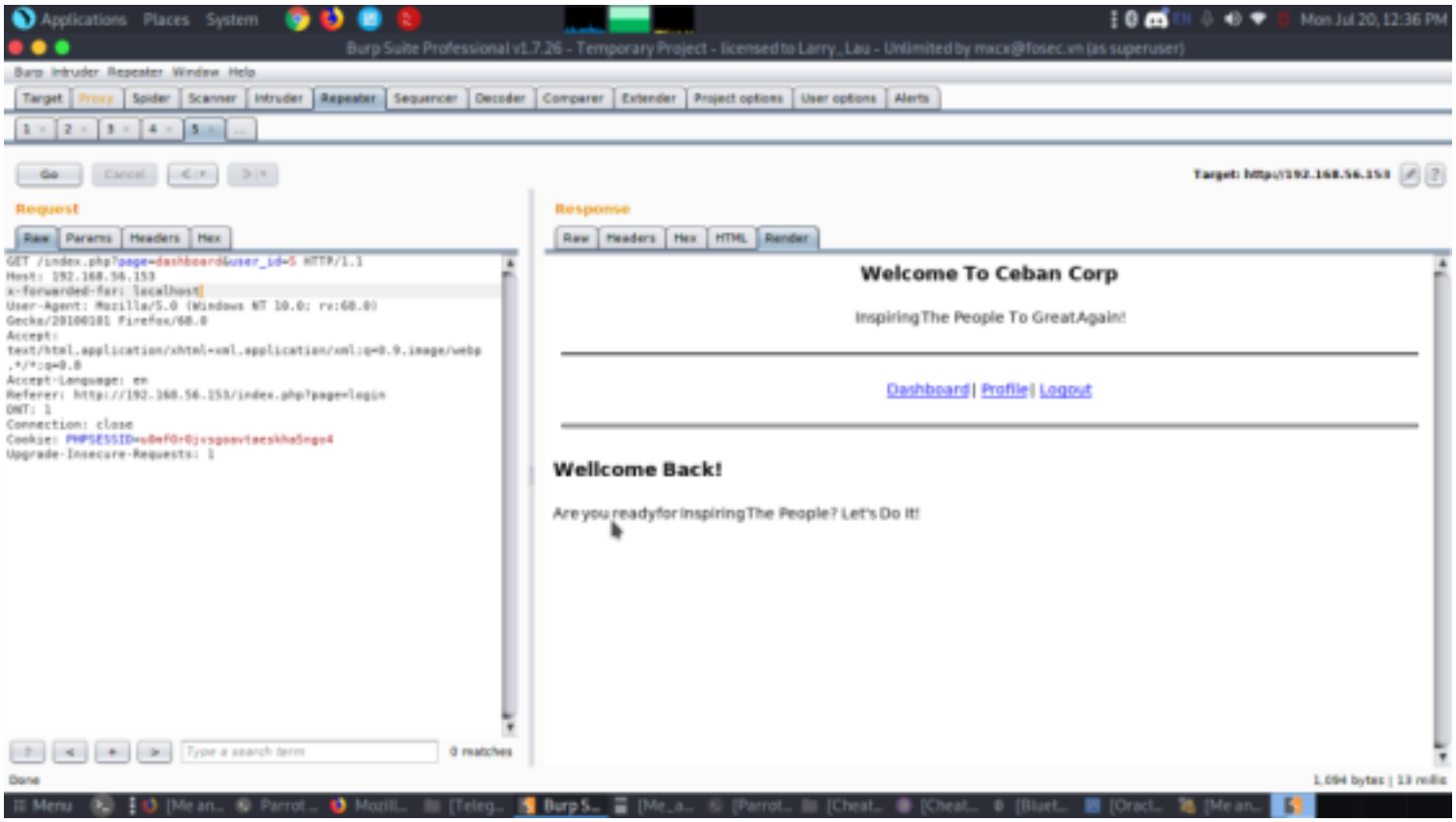
Now we started burpsuite and then after intercepting the page we edited the page by entering x-forwarded-for: localhost and then forwarded to check if the page shows anything else.



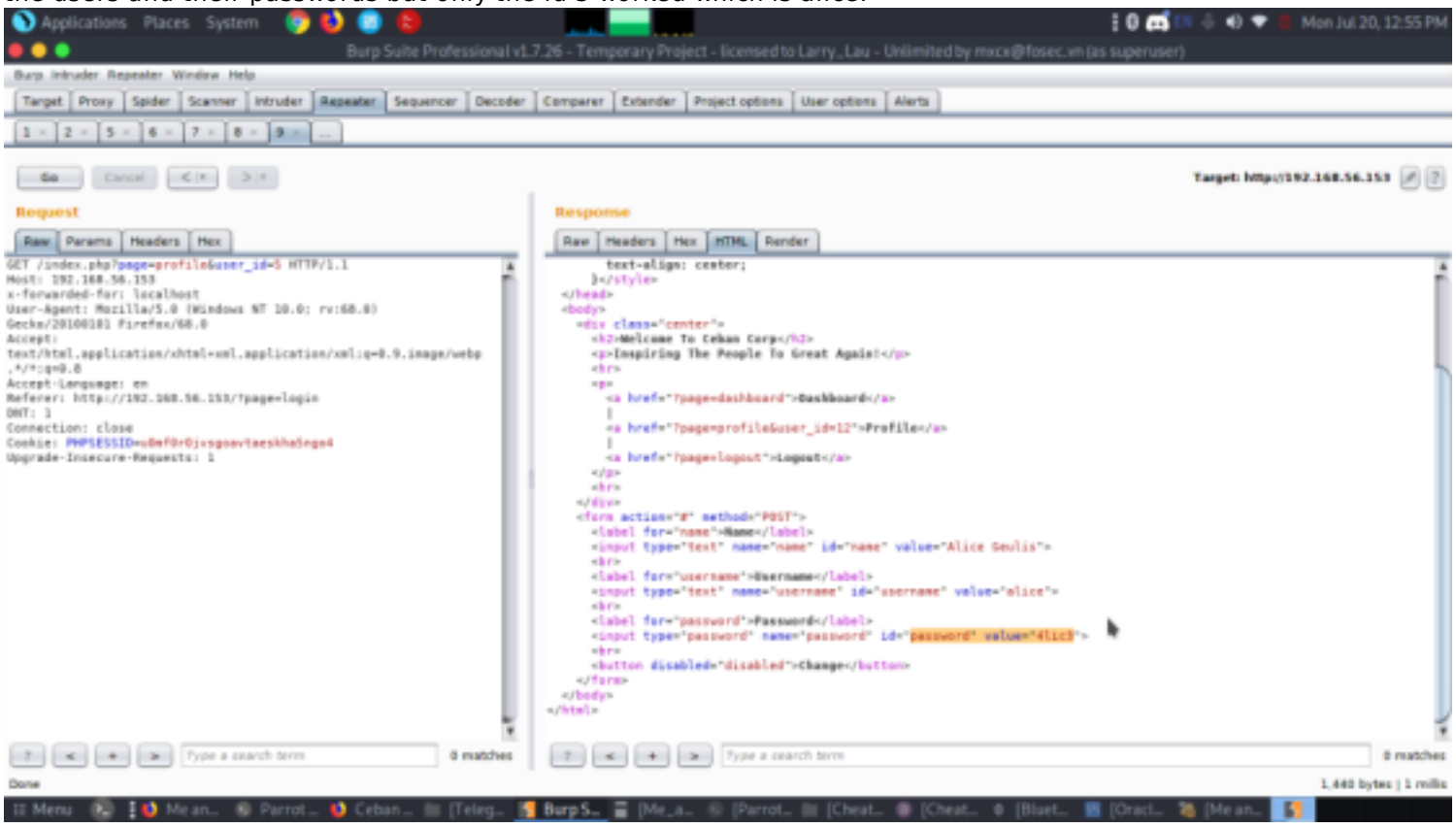
Fortunately we were directed to another page which is the webpage of cebancorp.



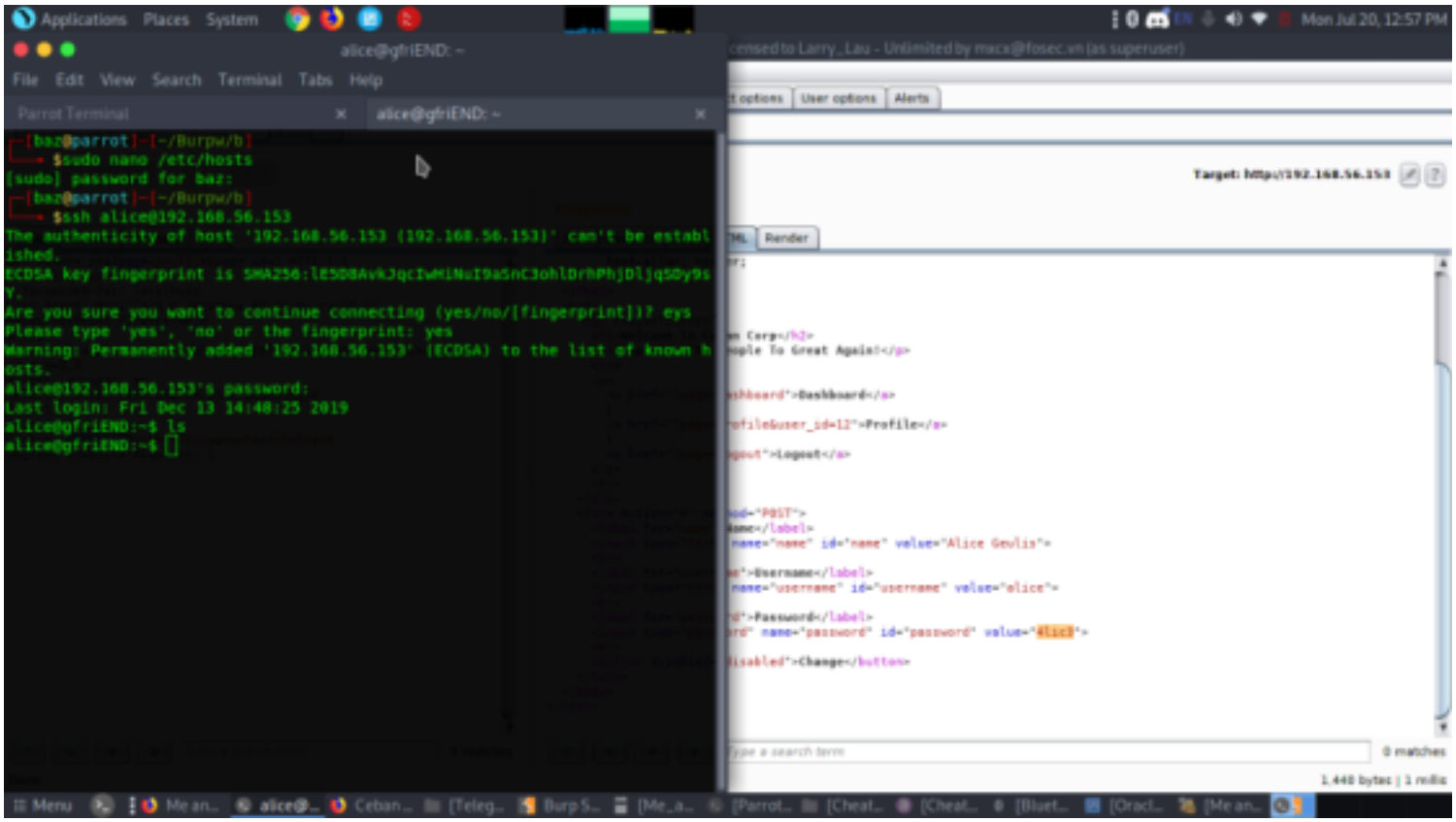
We checked all the webpages to find anything suspicious but nothing showed up then we went on to register and after registering we forwarded the request and the webpage poped. But we were'nt able to find any useful information or any pages to upload or any directories other than a welcome/dashboard page.



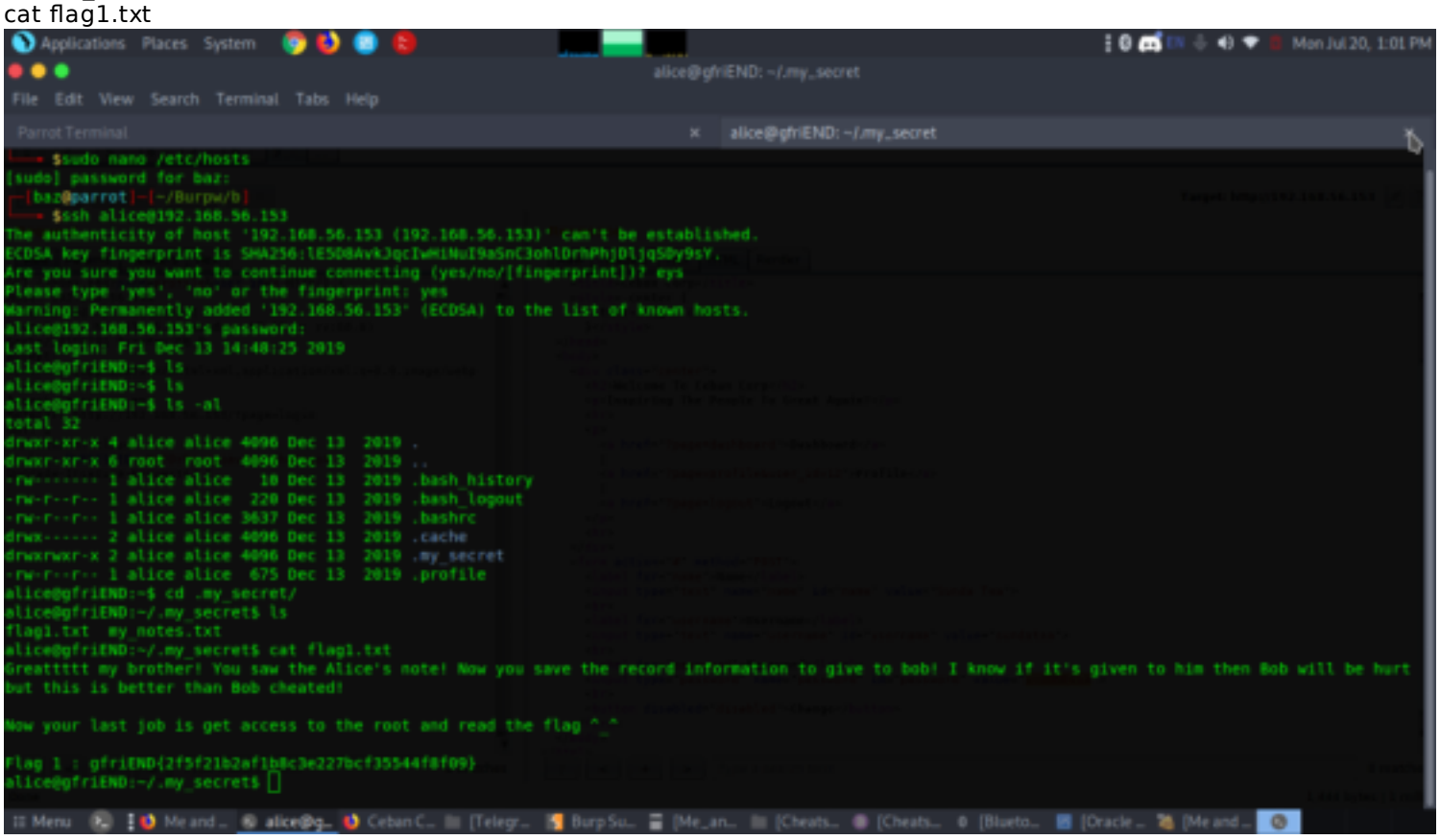
Then after investigating for some more time we saw the url used some form of id parameter to sort and identify their users. So we intercepted the page and from repeater we changed the if from 1-5 and surprisingly we got all of the users and their passwords but only the id-5 worked which is alice.



So now we have the username and password of alice.
Lets try to login using ssh
ssh alice@192.168.56.153
pass- 4lic3

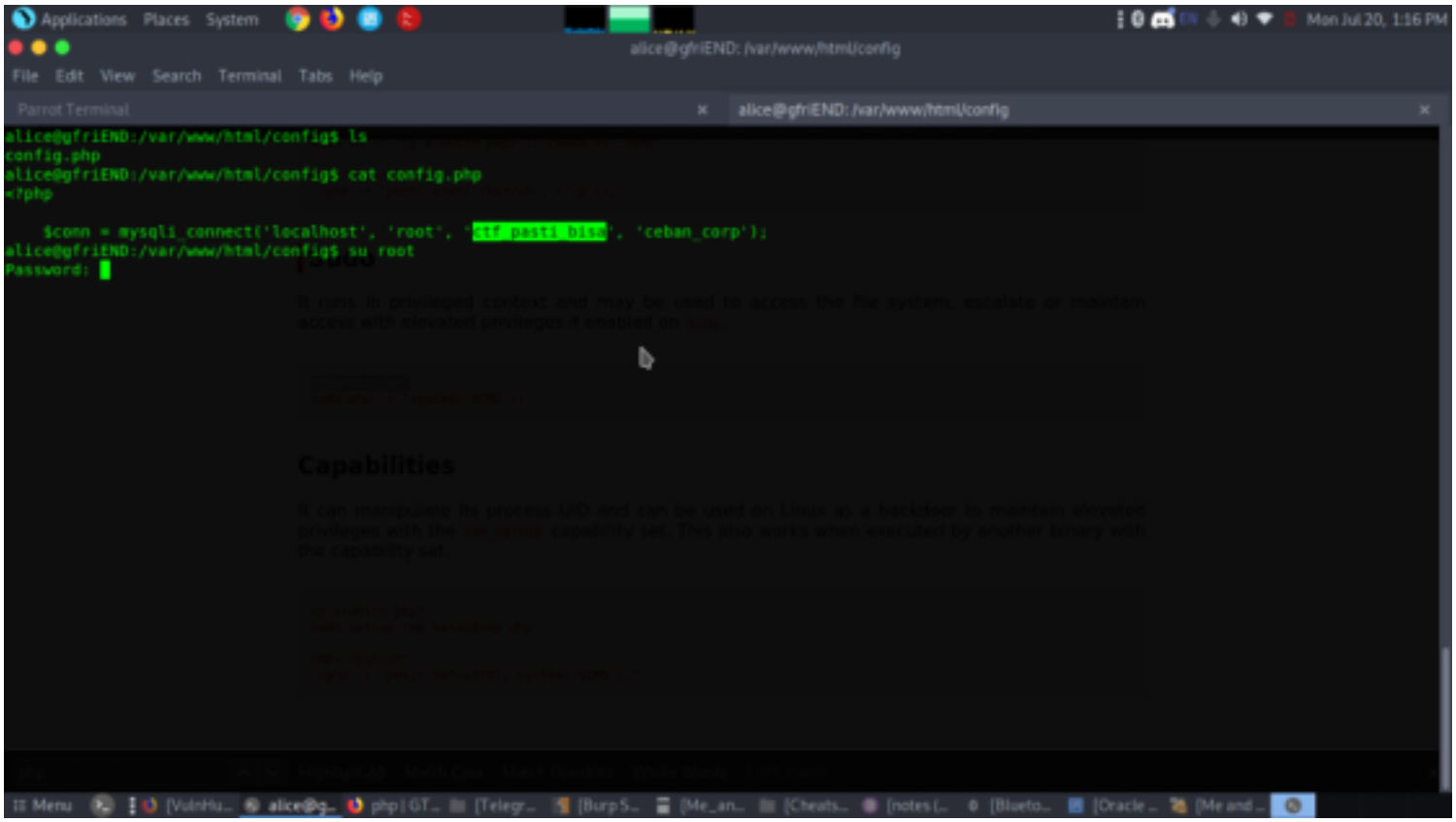


We are in. Let's move on to see the userflag
cd .my_secret
cat flag1.txt

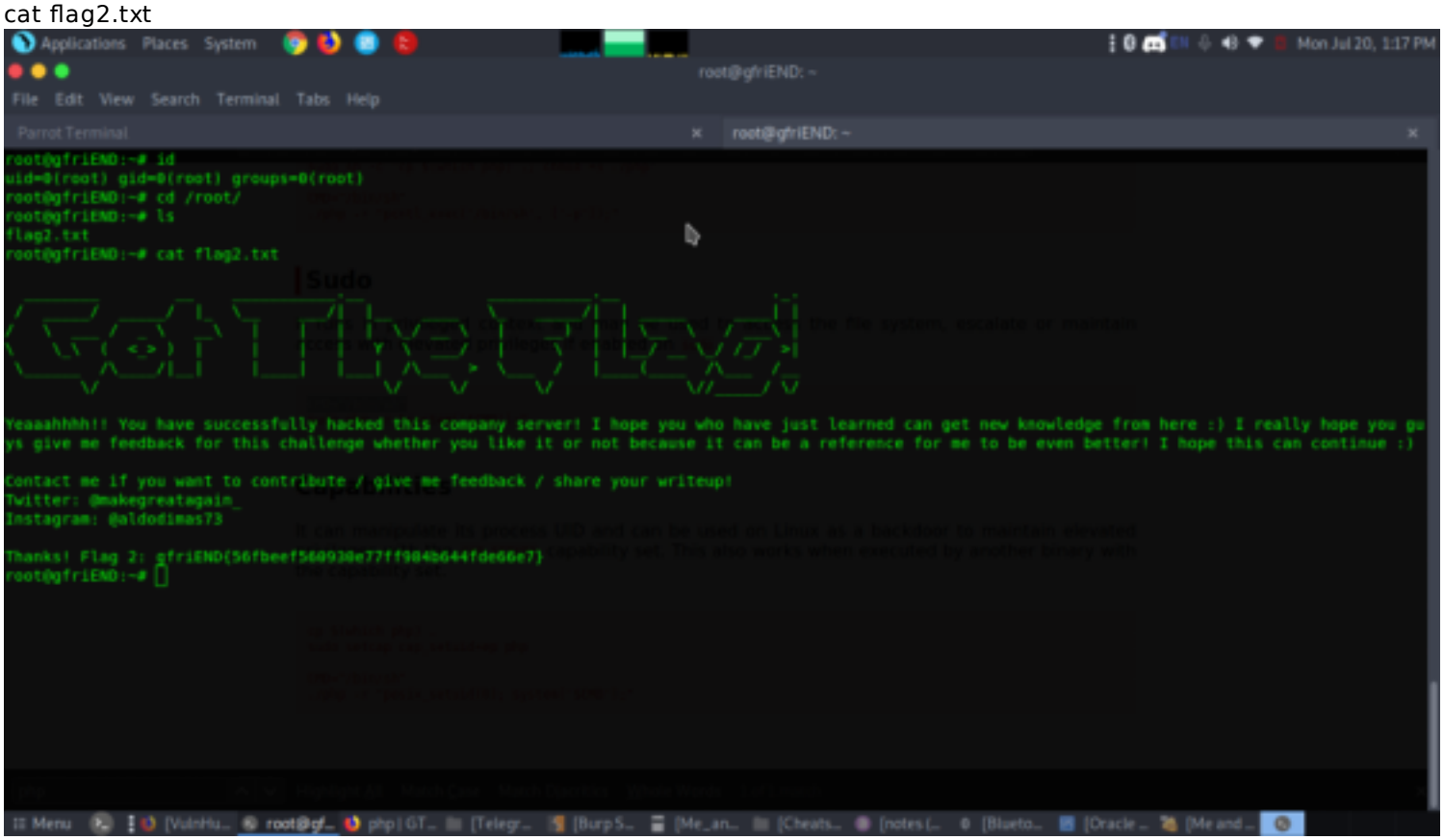


Post Exploitation

Now we have user flag. Let's go on to escalate privileges and get the root flag.
After going through all the directories and one file seemed suspicious. After reading config.php from html/config we got the password of root
cd /var/www/html/config
cat config.php



su root
id
cd /root
cat flag2.txt



.....Happy Hacking.....