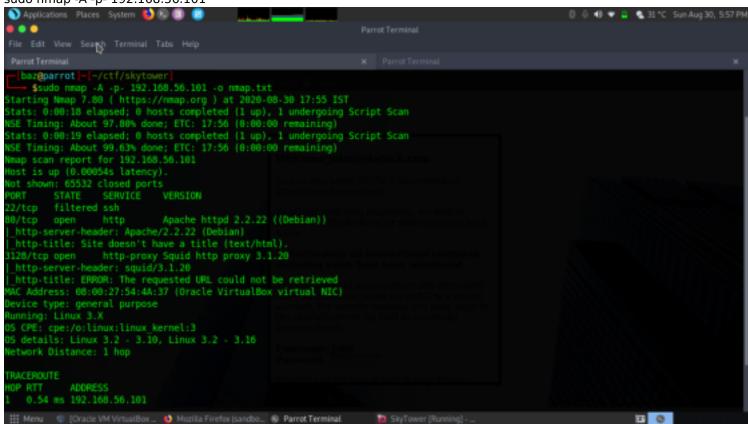
## **Skytower**

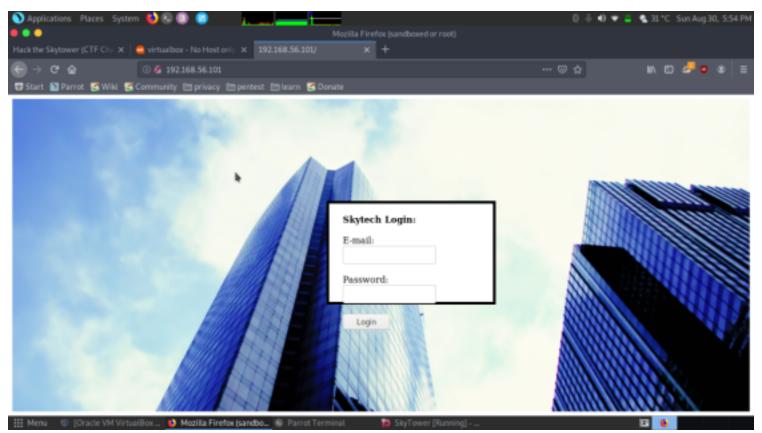
IP- 192.168.56.101 Walkthrough by Basil Wattlecorp Cybersecurity Labs

## Methadologies

Let's start to identify open ports, services, version etc using nmap sudo nmap -A -p- 192.168.56.101



We got few open ports. Let's start by exploring port 80



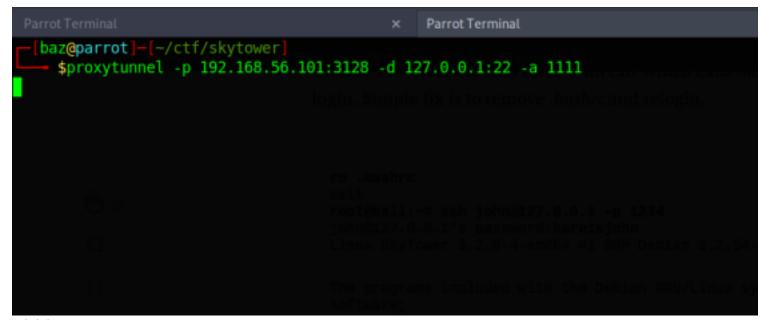
We were directed to a login page and tried a lot's of default credentials and sql injections but most of them failed except blind injection which was a success.

We got a username and pass which could be the one for ssh. But ssh is filtered.

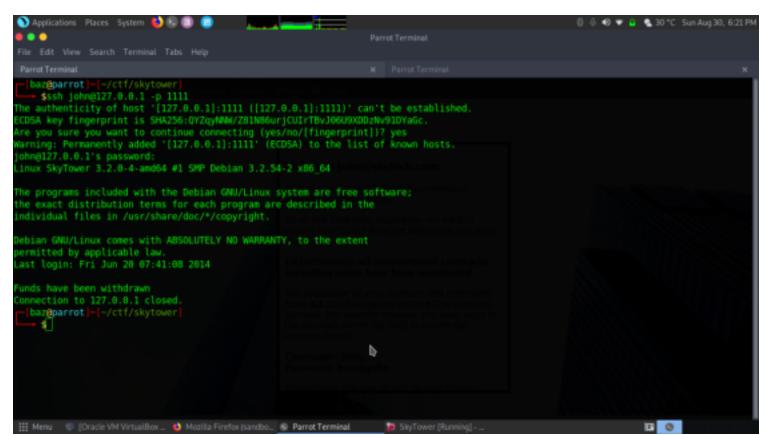
But we have SQUID proxy configured on port 3128. So we can access the SSH server by proxying the connection through the SQUID server on the target machine

Let's set it up by proxy tunnel and route it to ssh

ssh through the http tunnel

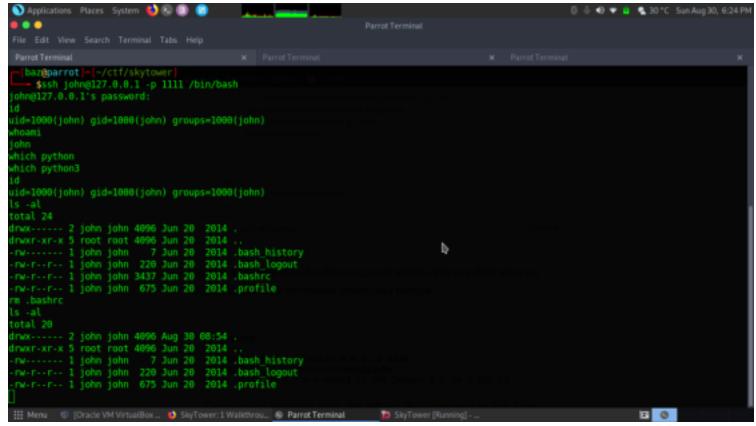


ssh john@127.0.0.1 -p 1111

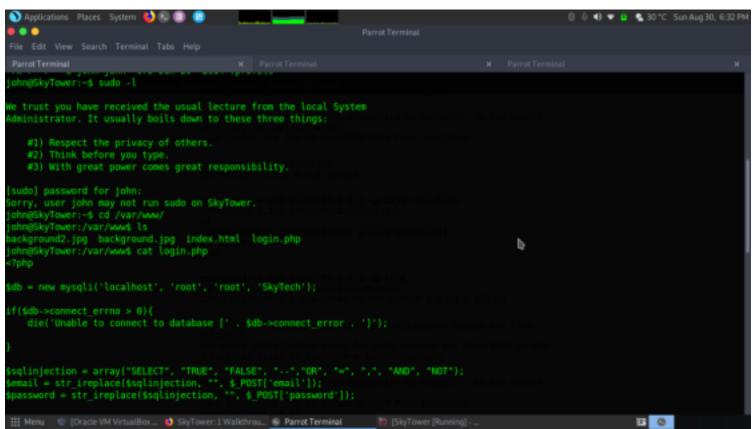


We successfully login but we are immediately logged out. This may be because of a custom shell or a weird .bashrc configuration.

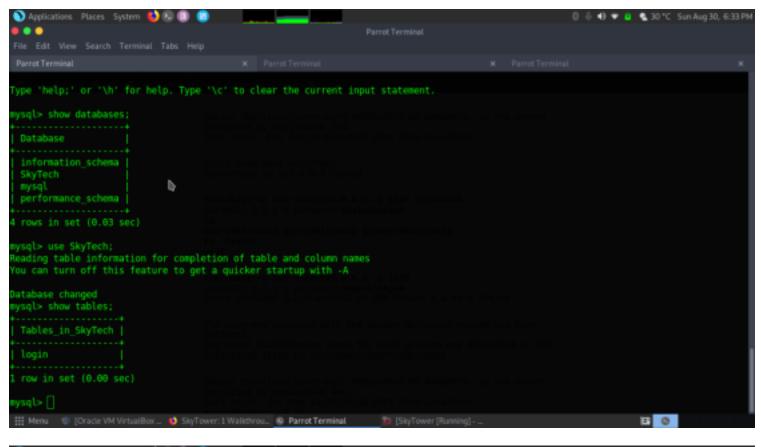
We can drop into a shell by passing /bin/bash as a parameter to our SSH.

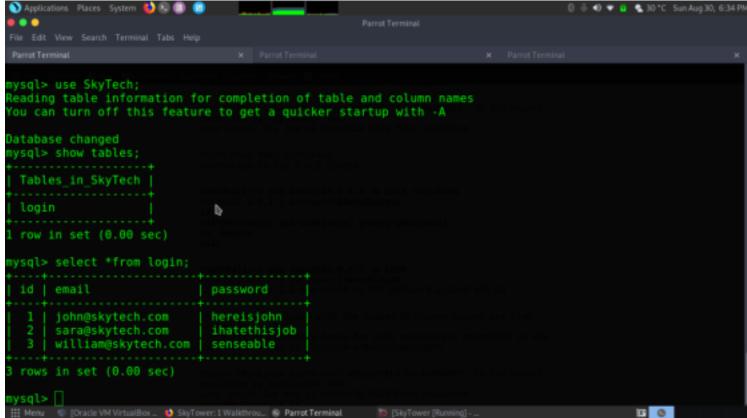


While trying to bypassing the login we found out that MySQL is running on the machine. So we can now enumerated the credentials from login.php.



We now have the database credentials. Looking closer into the file we have found the filtered character which were making sure that our initial payload for sql injection fails.ow lets login to our mysql database and enumerate credentials.





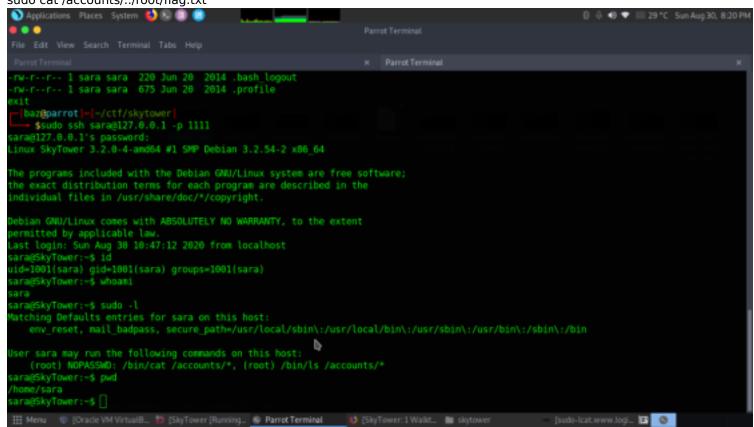
Great we got another two users let's login using sara.

```
[baz@parrot]-[~/ctf/skytower]
    ssudo ssh sara@127.0.0.1 -p 1111 /bin/bash
sara@127.0.0.1's password:
id
uid=1001(sara) gid=1001(sara) groups=1001(sara)
ls -al
total 20
drwx----- 2 sara sara 4096 Jun 20
                                     2014 .
drwxr-xr-x 5 root root 4096 Jun 20
                                     2014 ...
rw-r--r-- 1 sara sara
                        220 Jun 20
                                     2014 .bash logout
-rw-r--r-- 1 sara sara 3437 Jun 20
                                     2014 .bashrc
-rw-r--r-- 1 sara sara
                        675 Jun 20
                                     2014 .profile
rm .bashrc
ls -al
total 16
drwx----- 2 sara sara 4096 Aug 30 10:48 .
                                     2014 ...
drwxr-xr-x 5 root root 4096 Jun 20
rw-r--r-- 1 sara sara
                        220 Jun 20
                                     2014 .bash logout
-rw-r--r-- 1 sara sara
                        675 Jun 20
                                     2014 .profile
exit
```

To get the proper shell we again removed the .bashrc file. sudo -l

The flaw in the above configuration is that /account/ is appended with a \*. We can exploit this to read /root/flag.txt by traversing the directories.

sudo cat /accounts/../root/flag.txt



And we were logged in as root.

id cd /root cat flag.txt Found the flag

