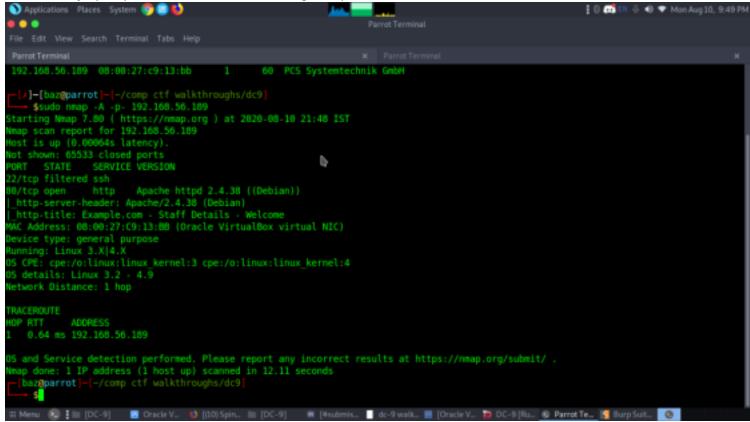
Dc-9

IP-192.168.56.189 walkthrough by Basil

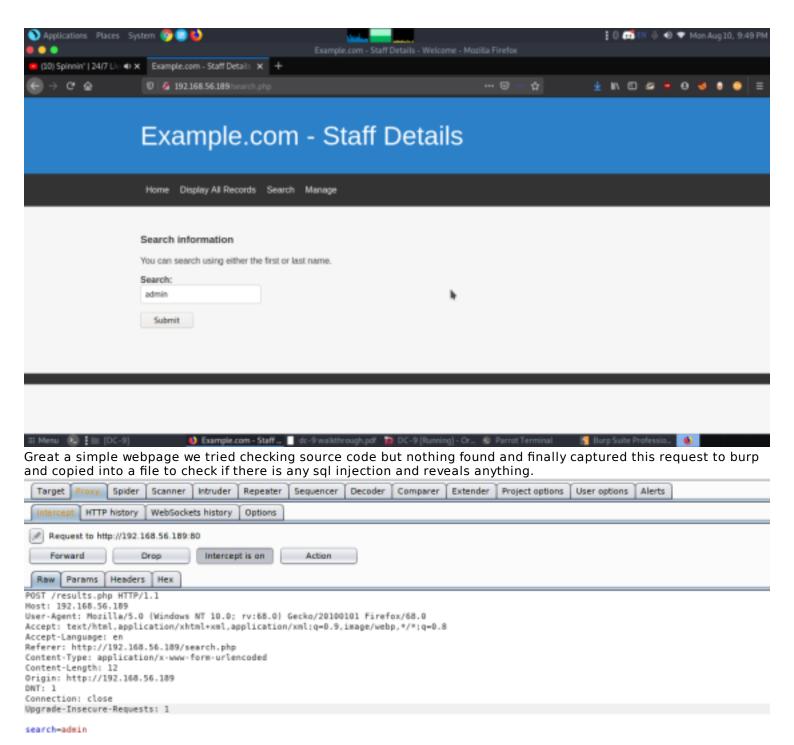
Methadologies

let's identify open ports, services, versions using nmap tool

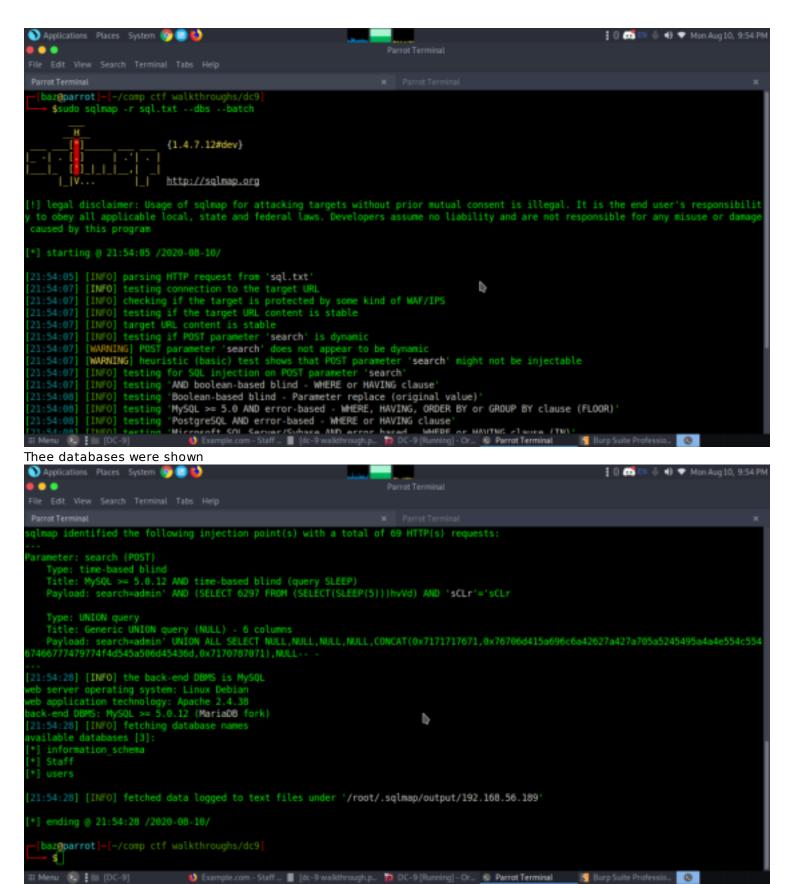


two open ports. 22(ssh) 80(http)

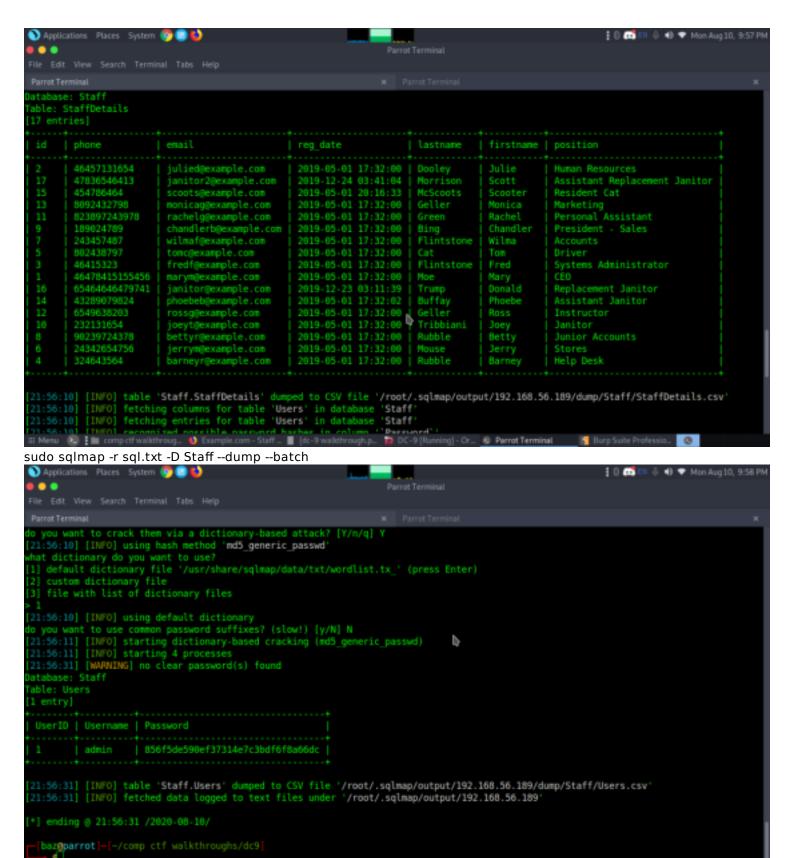
Let's start by visiting the webpage



We copied this into file and did sqlmap



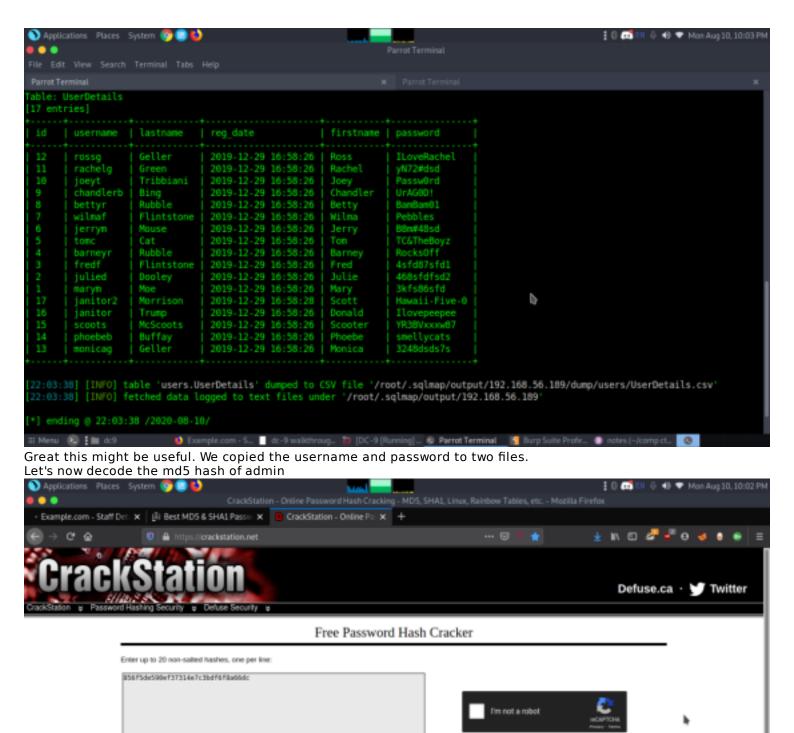
Let's check the staff database



Great from staff we got the id,name,email,ph-no,position and also it revealed admin pass which was encrypted in md5 hash. Before decrypting let's check user database

Burp Suite Professio... (8)

iii Menu 🔞 🚦 i comp ctf walkthroug... 🐞 Example.com - Staff... 📳 (dc-9 walkthrough.p... 🎁 DC-9 (Running) - Or... 😵 Parrot Terminal



We found the pass of admin. Now let's login.

How CrackStation Works

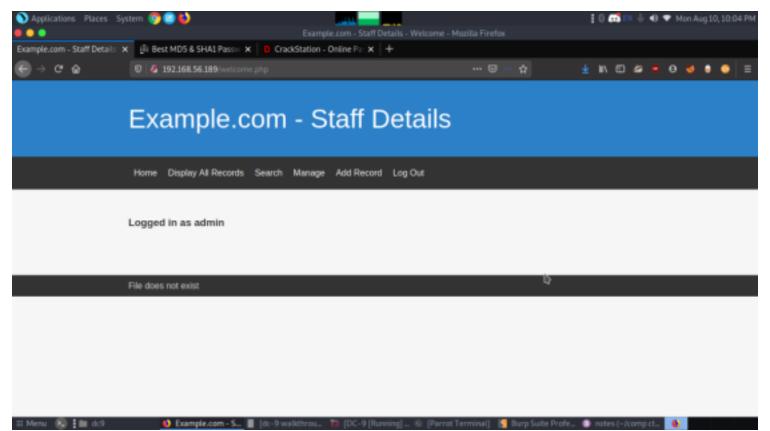
85615de598ef37314e7c3bdf6f8a66dc

Exact match, Yellow Partial match, 1888 Not found.

apports: LM, NTLM, md2, md4, md5, md5(md5, bex), md5-half, sha2. sha224, sha254, sha264, sha512, ripel#D368, whirlpool, MySQL 4.3+ (sha2)sha2_bin), Qubes/3.18a

Download CrackStation's Wordlist

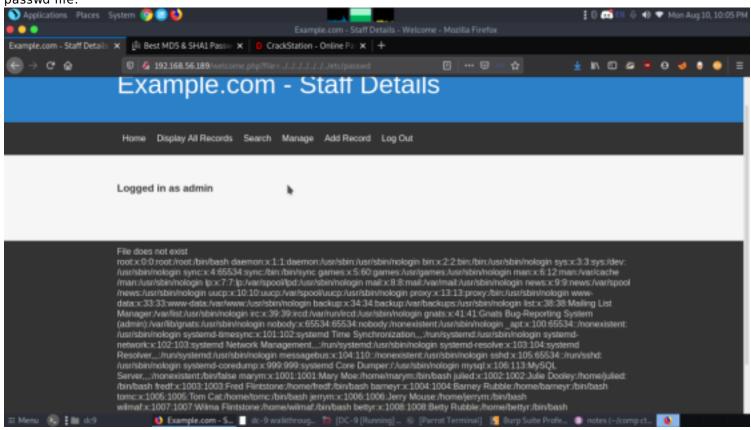
Crack Hashes



Simple webpage. We have successfully logged in, but it also shows that a file does not exist. This means that the webpage can't find a file

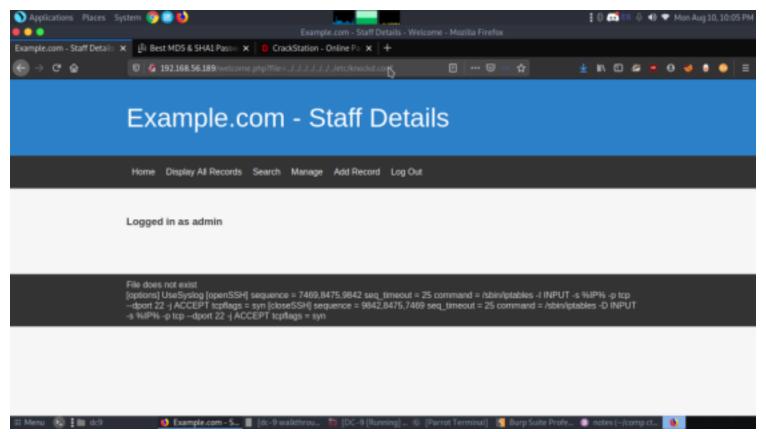
which was previously included. There is a possibility of LFI vulnerability here. Let's check for it by trying to display the /etc/

passwd file.



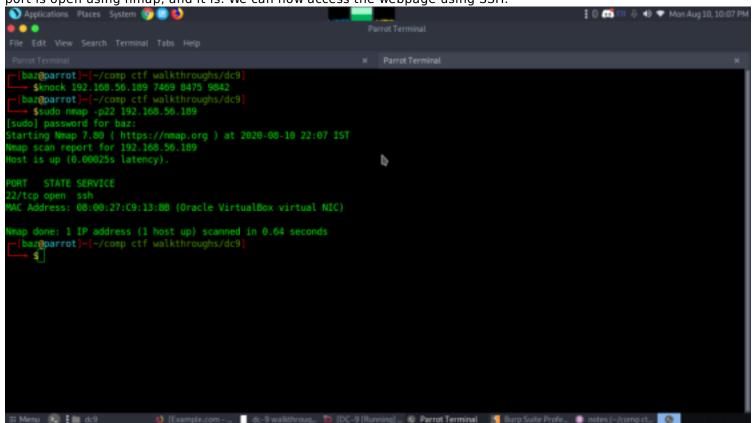
We got the passwd file, which means LFI vulnerability exists. When we were going through the various files, we got a file

knockd.conf, which means there is port knocking involved. We also got a SSH sequence from the file, as shown below.



Let's try to knock in the sequence we got from Ifi using knock command. Once we knock on the ports, we check if the ssh

port is open using nmap, and it is. We can now access the webpage using SSH.



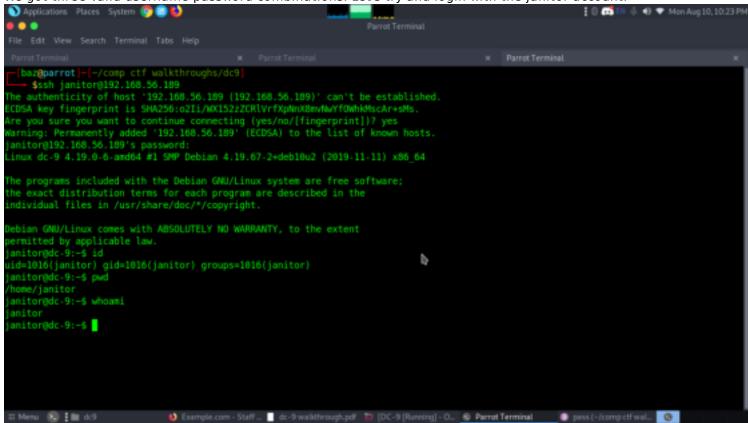
When we tried to login via SSH using the same admin credentials we used on the webpage, it didn't work. So, we took the

usernames and passwords we got from the enumerated db tables, and saved them in two text files user.txt and pass.txt.

Then, we used hydra to try and brute force into ssh

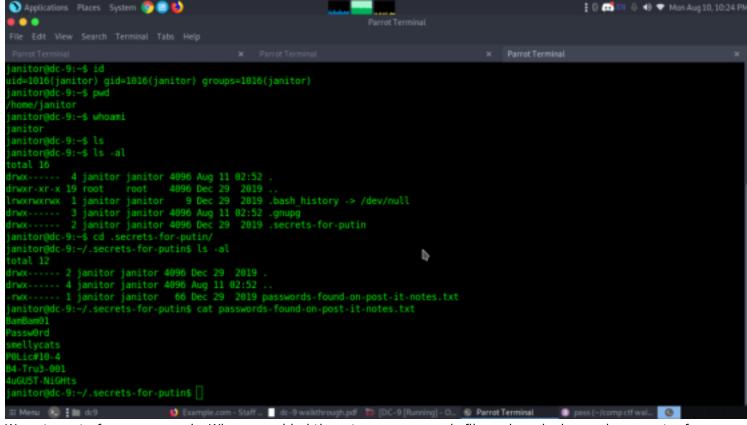
```
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-02-17 13:02:13
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 324 login tries (l:18/p:18), ~21 tries per task [DATA] attacking ssh://192.168.43.87:22/
[22][ssh] host: 192.168.43.87 login: chandlerb password: UrAGOD!
[22][ssh] host: 192.168.43.87 login: joeyt password: Password
[22][ssh] host: 192.168.43.87 login: janitor password: Ilovepeepee
```

We got three valid username-password combinations. Let's try and login with the janitor account.



When we displayed the janitor's files, we found a hidden directory called "secrets for putin", which makes sense because

Donald Trump is the janitor. Let's see what secrets Trump has for Putin



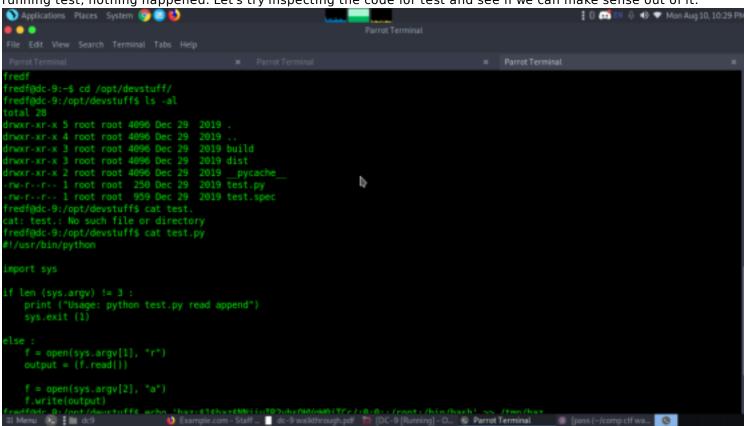
We got a set of new passwords. When we added them to our passwords file and ran hydra again, we got a few new

```
[22][ssh] host: 192.168.43.87 login: fredf password: B4-Tru3-001 [22][ssh] host: 192.168.43.87 login: chandlerb password: UrAG0D! [22][ssh] host: 192.168.43.87 login: joeyt password: Passw0rd [22][ssh] host: 192.168.43.87 login: janitor password: Ilovepeepee
```

let's login to fredf Napplications Places System 🕎 🔝 😜 • • • 4096 Dec 29 irwxr-xr-x 19 root root 2019 ... 9 Dec 29 2019 .bash history -> /dev/null rwxrwxrwx l janitor janitor drwx----- 3 janitor janitor 4096 Aug 11 02:52 .gnupg drwx----- 2 janitor janitor 4096 Dec 29 2019 .secrets-for-putin anitor@dc-9:-\$ cd .secrets-for-putin/ anitor@dc-9:-/.secrets-for-putin\$ ls -al total 12 drwx----- 2 janitor janitor 4096 Dec 29 2019 . drwx----- 4 janitor janitor 4096 Aug 11 02:52 .. -rwx----- 1 janitor janitor 66 Dec 29 2019 passwords-found-on-post-it-notes.txt janitor@dc-9:~/.secrets-for-potin\$ cat passwords-found-on-post-it-notes.txt BamBam01 Passw0rd 0Lic#10-4 34-Tru3-001 4uGU5T-NiGHts janitor@dc-9:~/.secrets-for-putin\$ su fredf assword: redf@dc-9:/home/janitor/.secrets-for-putin\$ cd fredf@dc-9:~\$ id uid=1003(fredf) gid=1003(fredf) groups=1003(fredf) fredf@dc-9:-\$ whoami redf redf@dc-9:∼\$ iii Menu 🕟 🎚 🗎 dc9

When we saw what permissions fred has, we found that fred can execute the command test as root. But when we tried

running test, nothing happened. Let's try inspecting the code for test and see if we can make sense out of it.



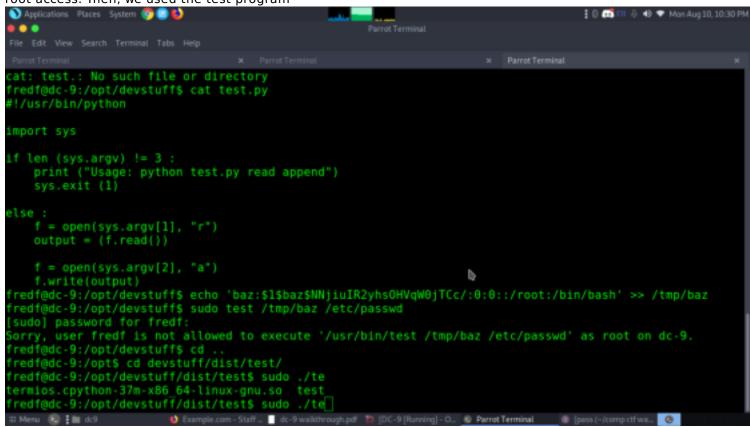
We can see that test is a simple program which takes two files, and concatenates the contents of the first file to the second file. We can use this to our advantage. We can create a new user with root privileges, and add it to the /etc/-

passwd

file so it acts as an existing user, and login using those credentials to get root access.

We created a user baz with password asdf, and using openssl we have hashed the password. Then, we saved the username-password combination in a file named jack inside /tmp folder. We added the colons and :0:0:: to give the user

root access. Then, we used the test program



We were able to login as root successfully. Let's go to the home folder and read the root flag.

