Keeper

Let's start with enumerating services with simple nmap command.

Theres is nginx server running on port 80 so let's view it in browser.

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

Link redirects us to tickets.keeper.htb so let's add it to /etc/hosts.

-\$ echo	"10.129.229.41	tickets.keeper.h	tb" sudo	tee -a	/etc/hosts	
Not logged in.					RT for tickets.keeper.htb	≫REQUEST≪
Login						
		Login		4.4.4+dfsg-2	ubuntu1	
		Username:				
		Password:				
				Login		

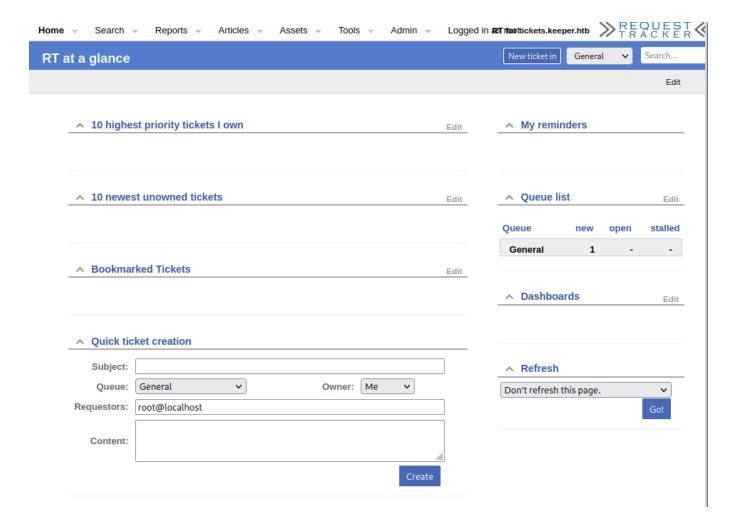


»|« RT 4.4.4+dfsg-2ubuntu1 (Debian) Copyright 1996-2019 Best Practical Solutions, LLC.

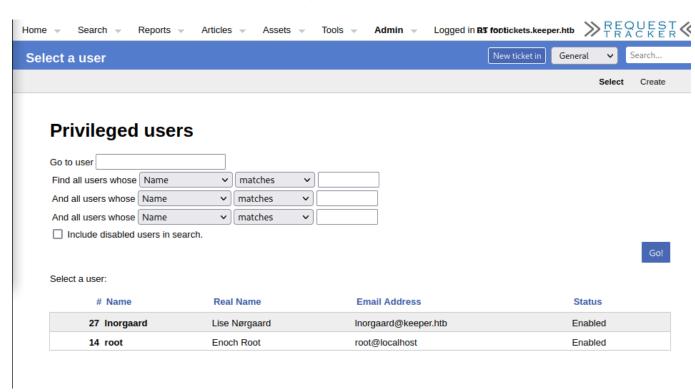
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We are shown a login page so let's try to log in trying some most common username and password combinations.

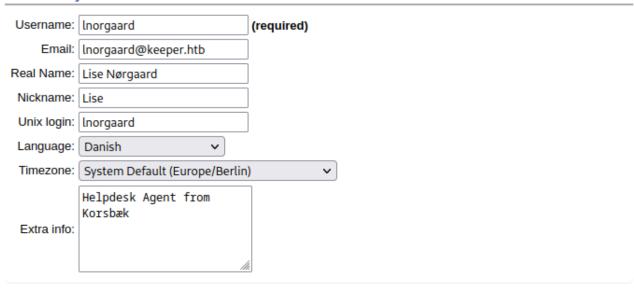


Going to admin -> users we can find following information:



And even more interesting at user config page:

A Identity



Access control

Let this user access RT						
Let this user be granted rights (Privileged)						
root's current password:						
New password:						
Retype Password:						

Comments about this user

```
New user. Initial password set to Welcome2023!
```

Let's SSH to that user.

```
$ ssh lnorgaard@10.129.66.134

lnorgaard@keeper:~$ whoami

lnorgaard
```

User flag can be found at /home/lnorgaard.

```
lnorgaard@keeper:~$ pwd
/home/lnorgaard
lnorgaard@keeper:~$ ls
RT30000.zip user.txt
```

Let's transfer .zip file to our local machine and inspect it.

Unzip that file.

```
-$ unzip RT30000.zip
Archive: RT30000.zip
inflating: KeePassDumpFull.dmp
extracting: passcodes.kdbx
```

Dump file (.dmp) is a snapshot that shows the process that was executing and modules that were loaded for an app at a point in time.

To open .kdbx file - Keepass database format - we can use keepass2 tool. but we will need a password.



In order to open .dmp file we have to make a research to find a proper tool.

A great one will be PoC for CVE-2023-32784 saying that we can recover plaintext password from KeePass dump files.

Installation:

Install .NET

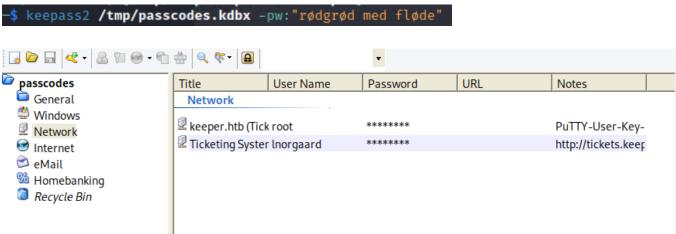
```
-$ git clone https://github.com/vdohney/keepass-password-dumper
```

Run following command:

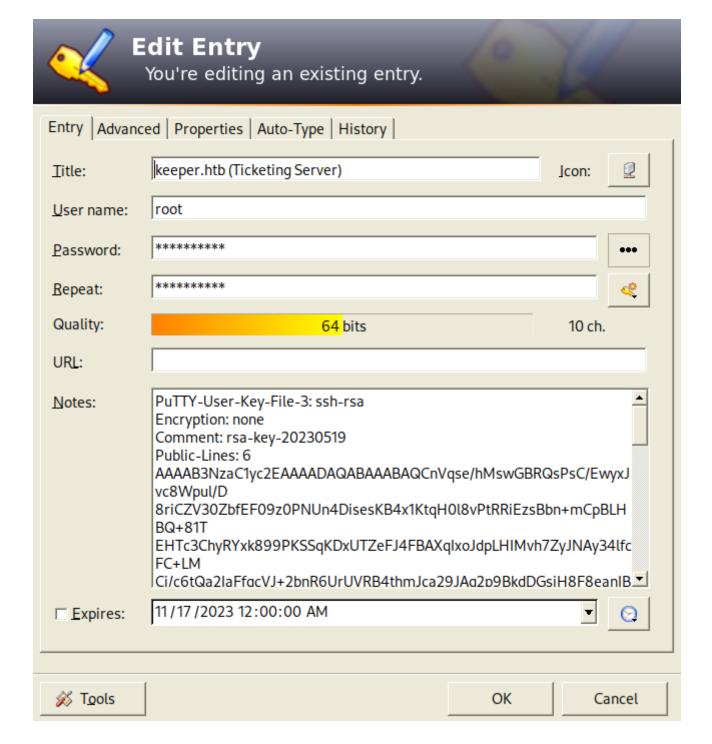
```
-$ dotnet run /tmp/KeePassDumpFull.dmp
```

Trying \to provide found password to open passcodes.kdbx file fails so we have to modify it a bit.

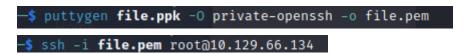




By clicking "Edit Entry" for "keeper.htb" we found a password, which does not work for SSH, and PuTTY key.



Let's save it to file and convert it to OpenSSH RSA key.



We successfully connected by SSH as root with file.pem as key, user flag can be found at /root.

root@keeper:~# whoami root

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