

New issue

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Bug Report: Multiple Arbitrary File Deletion vulnerabilities #32

Closed faisalFs10x opened this issue on Jul 20, 2021 · 1 comment

faisalFs10x commented on Jul 20, 2021 • edited

Vulnerability Name: Multiple Arbitrary File Deletion**Date of Discovery:** 20 July 2021**Product version:** 1.2.9 [Download link](#)**Author:** faisalFs10x

Vulnerability Description: When unsanitized user input is supplied to a file deletion function, an arbitrary file deletion vulnerability arises. This occurs in PHP when the `unlink()` function is called and user input might affect portions of or the whole affected parameter, which represents the path of the file to remove, without sufficient sanitization. Exploiting the vulnerability allows an attacker to delete any file in the web root (along with any other file on the server that the PHP process user has the proper permissions to delete). Furthermore, an attacker can leverage the capability of arbitrary file deletion to circumvent certain webserver security mechanisms such as deleting `.htaccess` file that would deactivate those security constraints.

Proof of Concept 1

Vulnerable URL: <http://localhost/CSZCMS-V1.2.9/member/edit/save>**Vulnerable Code:** line 2141 - `cszcms\models\Csz_model.php`

```
Csz_model.php
2125 public function updateMember($id, $backend = FALSE) {
2126     $query = $this->chkPassword($this->session->userdata('admin_email'), $this->input->post('cur_password', TRUE), $backend);
2127     if ($query['num_rows'] > 0) {
2128         if ($this->input->post('pm_sendmail')) {
2129             $pm_sendmail = $this->input->post('pm_sendmail', TRUE);
2130         } else {
2131             $pm_sendmail = 0;
2132         }
2133         // update the user account
2134         if ($this->input->post('year', TRUE) && $this->input->post('month', TRUE) && $this->input->post('day', TRUE)) {
2135             $birthday = $this->input->post('year', TRUE) . '-' . $this->input->post('month', TRUE) . '-' . $this->input->post('day', TRUE);
2136         } else {
2137             $birthday = '';
2138         }
2139         if ($this->input->post('del_file')) {
2140             $upload_file = '';
2141             $unlink('photo/profile/' . $this->input->post('del_file', TRUE));
2142         } else {
2143             $upload_file = $this->input->post('picture');
2144             if (empty($_FILES['file_upload']) && $_FILES['file_upload']['type'] == 'image/png' || $_FILES['file_upload']['type'] == 'image/jpg' || $_FILES['file_upload']['type'] == 'image/jpeg' || $_FILES['file_upload']['type'] == 'image/gif') {
2145                 $parameter = '1';
2146                 $photo_id = time();
2147                 $upload_dir = 'photo/profile/';
2148                 $file_f = $_FILES['file_upload']['tmp_name'];
2149                 $file_name = $_FILES['file_upload']['name'];
2150                 $upload_file = $this->Csz_admin_model->file_upload($file_f, $file_name, $this->input->post('picture', TRUE), $upload_dir, $photo_id, $parameter);
2151             }
2152         }
2153     }
2154 }
```

Steps to Reproduce:

1. Login as member
2. Goto Edit Profile
3. Upload any image as profile picture and click save button - refresh
4. Click "Delete File" checkbox and click save button
5. Intercept the request and replace existing image to any files on the server via parameter "del_file".

Request

```
Pretty Raw Hex \n ≡
60
61
62 -----WebKitFormBoundaryjL3BT2a3rANHfByA
63 Content-Disposition: form-data; name="day"
64
65
66 -----WebKitFormBoundaryjL3BT2a3rANHfByA
67 Content-Disposition: form-data; name="gender"
68
69
70 -----WebKitFormBoundaryjL3BT2a3rANHfByA
71 Content-Disposition: form-data; name="address"
72
73
74 -----WebKitFormBoundaryjL3BT2a3rANHfByA
75 Content-Disposition: form-data; name="phone"
76
77
78 -----WebKitFormBoundaryjL3BT2a3rANHfByA
79 Content-Disposition: form-data; name="del_file"
80
81 ../../conf_backup.conf
82 -----WebKitFormBoundaryjL3BT2a3rANHfByA
83 Content-Disposition: form-data; name="file_upload"; filename=""
84 Content-Type: application/octet-stream
85
86
```

Proof of Concept 2

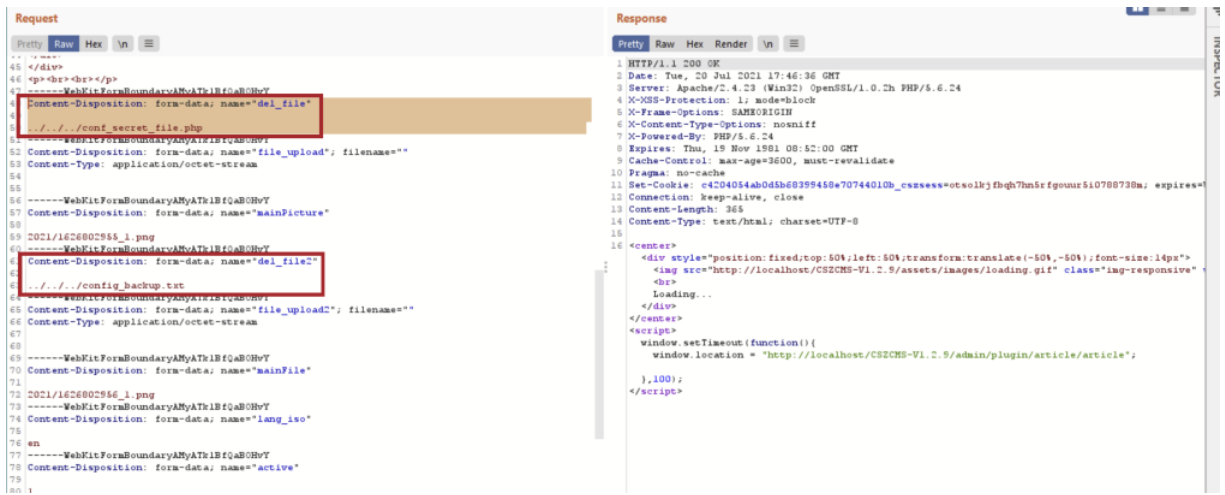
Vulnerable URL: <http://localhost/CSZCMS-V1.2.9/admin/plugin/article/editArtSave>

Vulnerable Code: line 116, 131 - cszcms\models\plugin\Article_model.php

```
Article_model.php
108
109 public function artupdate($id) {
110     $row = $this->Csz_model->getValue('is_category', 'article_db', 'article_db_id', $id, 1);
111     if($row->is_category){
112         ($this->input->post('active')) ? $active = $this->input->post('active', TRUE) : $active = 0;
113         ($this->input->post('fb_comment_active')) ? $fb_comment_active = $this->input->post('fb_comment_active', TRUE) : $fb_comment_active = 0;
114         if ($this->input->post('del_file')) {
115             $upload_file = '';
116             @unlink('photo/plugin/article/' . $this->input->post('del_file', TRUE));
117         } else {
118             $upload_file = $this->input->post('mainPicture');
119             $file_upload_field1 = $FILES['file_upload'];
120             if (!empty($file_upload_field1) && $file_upload_field1['type'] == 'image/png' || $file_upload_field1['type'] == 'image/jpg' || $
121                 file_upload_field1['type'] == 'image/jpeg') {
122                 $parameter = '1';
123                 $photo_id = time();
124                 $uploadaddir = 'photo/plugin/article/';
125                 $file_f = $file_upload_field1['tmp_name'];
126                 $file_name = $file_upload_field1['name'];
127                 $upload_file = $this->Csz_admin_model->file_upload($file_f, $file_name, $this->input->post('sitelogo', TRUE), $uploadaddir, $photo_id, $
128                     parameter);
129             }
130             if ($this->input->post('del_file2')) {
131                 $upload_file2 = '';
132                 @unlink('photo/plugin/article/' . $this->input->post('del_file2', TRUE));
133             } else {
134                 $upload_file2 = $this->input->post('mainFile');
135                 $file_upload_field2 = $FILES['file_upload2'];
136                 if (!empty($file_upload_field2)) {
137                     $parameter = '1';
138                     $photo_id = time();
139                     $uploadaddir = 'photo/plugin/article/';
140                     $file_f = $file_upload_field2['tmp_name'];
141                     $file_name = $file_upload_field2['name'];
142                     $upload_file2 = $this->Csz_admin_model->file_upload($file_f, $file_name, $this->input->post('sitelogo', TRUE), $uploadaddir, $photo_id, $
143                         parameter);
144                 }
145             }
146         }
147     }
148 }
```

Steps to Reproduce:

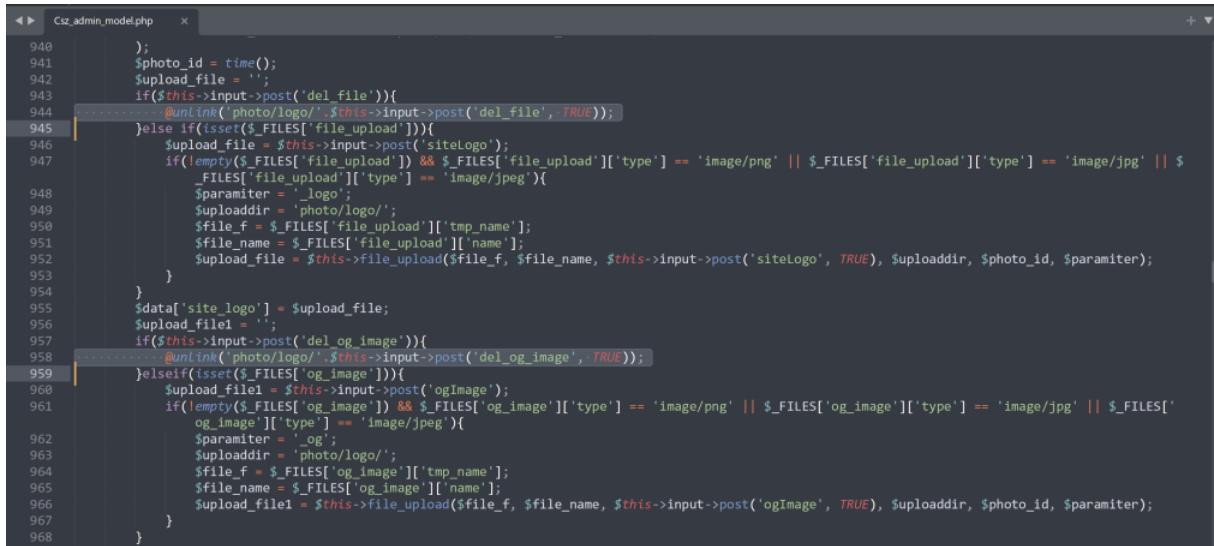
1. Login as admin
2. Goto Plugin Manager > Article > edit any article
3. Upload any image as "Main Picture" and "File Upload" and click save button
4. Click "Delete File" button for both "Main Picture" and "File Upload" and click save button
5. Intercept the request and replace existing image to any files on the server via parameter "del_file" and "del_file2"



Proof of Concept 3

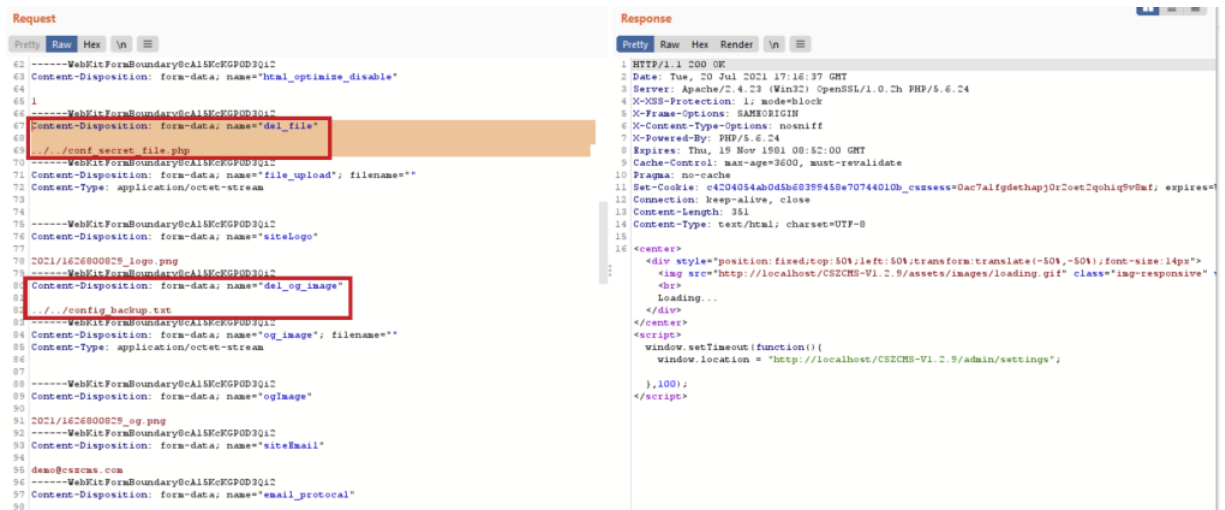
Vulnerable URL: <http://localhost/CSZCMS-V1.2.9/admin/settings/update>

Vulnerable Code: line 944 - cszcms\models\Csz_admin_model.php



Step to Reproduce:

1. Login as admin
2. Goto General Menu > Site Setting
3. Upload any image as "Site Logo" and "Image of og metatag" and click save button
4. Click "Delete File" button for both "Site Logo" and "Image of og metatag" and click save button
5. Intercept the request and replace existing image to any files on the server via parameter "del_file" and "del og_image"



Thanks. cc@cskaza

  **faisalfs10x** changed the title ~~Bug Report: Multiple Arbitrary File Deletion vulnerability~~ Bug Report: Multiple Arbitrary File Deletion vulnerabilities on Jul 20, 2021

cskaza commented on Nov 9, 2021

Owner

Resolved done on next version.

 **cskaza** closed this as completed on Nov 9, 2021

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

