

## GilaCMS 1.11.8 – '/cm/delete?t=' LFI (Local File Inclusion) and RCE

**Product Owner:** GilaCMS

**Application Name:** GilaCMS 1.11.8

**CVE ID:** CVE-2020-5513

**Type:** Installable/Customer-Controlled Application

**Application Release Date:** 4th December,2019

**Severity:** Critical

**Authentication:** Required

**Complexity:** Easy

**Vulnerability Name:** Local File Inclusion in '/cm/delete?t='

**Vulnerability Explanation:** The File Inclusion vulnerability allows an attacker to include a file, usually exploiting a “dynamic file inclusion” mechanisms implemented in the target application.

**Request:**

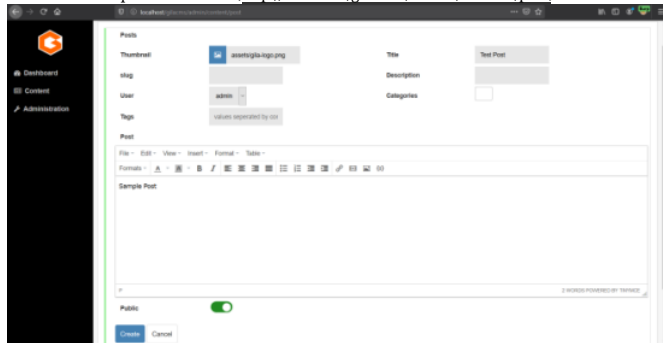
```
POST /gilacms/cm/delete?t={INJECTION_POINT} HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:71.0) Gecko/20100101 Firefox/71.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=-----191691572411478
Content-Length: 258
Origin: http://localhost
Connection: close
Referer: http://localhost/gilacms/admin/content/post
Cookie: GSESSIONID=1lnubi23gip8tg9ue4gt6xtjatdgf7crevfb8ovpl2g7dzau6; media_tab=assets; media_path=assets; asset_path=src%2Fcore%2Fassets
```

**Verified In:**

Firefox 71.0 (64-bit)  
Windows 10  
Hosted using XAMPP v3.2.4

**Steps to Reproduce:**

1. Login to the GilaCMS application as admin.
2. Create a new post and save it (<http://localhost/gilacms/admin/content/post>)



The screenshot shows the Joomla! administrator interface. On the left is a sidebar with navigation links: Dashboard, Content, and Administration. The main area displays a table of posts. A modal dialog box is open in the center, asking for confirmation to delete a post permanently. The dialog has 'OK' and 'Cancel' buttons. At the bottom of the screen, a status bar indicates the page was created in 0.177923 seconds and the Joomla! version is 1.11.5.

ID	Thumbnail	Title	User	Categories	Public	Updated	
3		Test Post				2019-12-31 13:54:57	
1		Hello World				2019-12-31 13:54:52	

Page created in 0.177923 seconds.  
 Site CMS version 1.11.5

[illegible][illegible]

The screenshot shows the Joomla! administrator interface. The top navigation bar includes 'Dashboard', 'Content', and 'Administration'. The main content area displays a table of pages. The table has the following data:

ID	Title	Slug	Publish	Title
1	Index	index		Index
3	Contact	contact		Contact
4	About	about		About

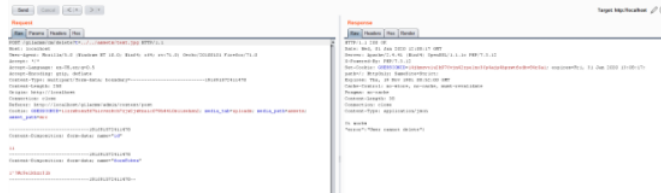
Below the table, a message reads: "Page created in 0.00000 seconds. CEE DATE version 1.1.1.5".

1. Go to <http://localhost:9000/admin/media> and upload an image file.

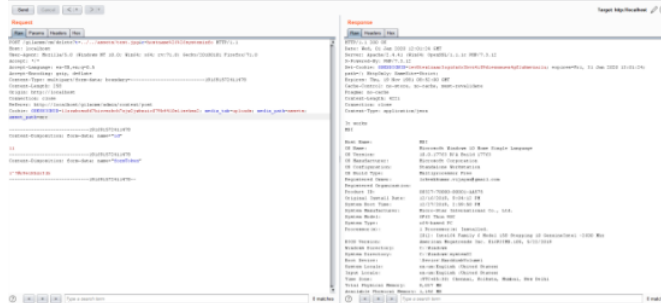
[illegible]

On the image gets uploaded successfully and the images are stored in the assets folder.

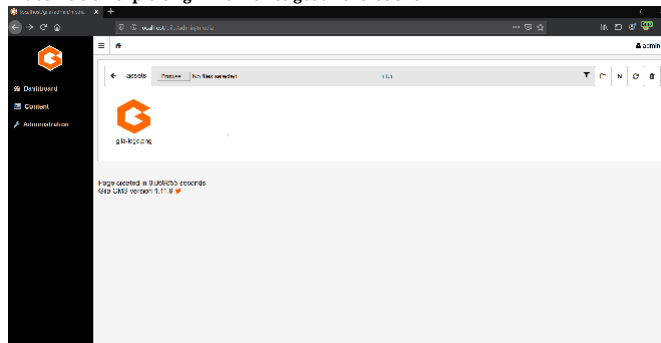
4. Now using the already found LFI vulnerability, change the 't' parameter to the path where the image (test.jpg) we uploaded is stored.



5. The PHP code gets executed and 'It works' gets echoed and printed in the response. Now adding another parameter ('c') to the request, we can perform command execution



#### Video POC on exploiting LFI & RCE to get a reverse shell:



#### Vulnerable Code:



#### Reference:

Website: <https://gilacms.com/>

GitHub Repository: <https://github.com/GilaCMS/gila>

Download Version: <https://github.com/GilaCMS/gila/releases/tag/1.11.8>

January 5, 2020 lokeskumarv

Blog at WordPress.com.