

# GitLab安装文档

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与GitHub的功能相似，通常企业使用GitLab在局域网搭建自己的Git代码管理仓库。

## 1 Docker下安装Gitlab

拉取gitlab、redis、postgresql，gitlab依赖redis和postgresql。

```
docker pull sameersbn/redis
docker pull sameersbn/postgresql
docker pull gitlab/gitlab-ce:latest
```

创建postgresql、redis容器：

```
docker run --name postgresql -d --privileged=true -e 'DB_NAME=gitlabhq_production' -e
'DB_USER=gitlab' -e 'DB_PASS=password' -e 'DB_EXTENSION=pg_trgm' -v
/home/root/opt/postgresql/data:/var/lib/postgresql sameersbn/postgresql

docker run --name redis -d --privileged=true -v /home/root/opt/redis/data:/var/lib/redis
sameersbn/redis
```

创建gitlab容器：

```
docker run --name gitlab -d --link postgresql:postgresql --link redis:redisio --hostname
192.168.101.64 -p 10022:22 -p 8899:80 -e 'GITLAB_PORT=8899' -e 'GITLAB_SSH_PORT=10022' -e
'GITLAB_SECRETS_DB_KEY_BASE=long-and-random-alpha-numeric-string' -e
'GITLAB_SECRETS_SECRET_KEY_BASE=long-and-random-alpha-numeric-string' -e
'GITLAB_SECRETS_OTP_KEY_BASE=long-and-random-alpha-numeric-string' -e
'GITLAB_HOST=192.168.101.64' -e 'SMTP_AUTHENTICATION=login' -v
/home/root/opt/gitlab/data:/home/git/data docker.io/gitlab/gitlab-ce
```

浏览器访问：<http://192.168.101.64:8899>

初次访问需要等待一段时间。

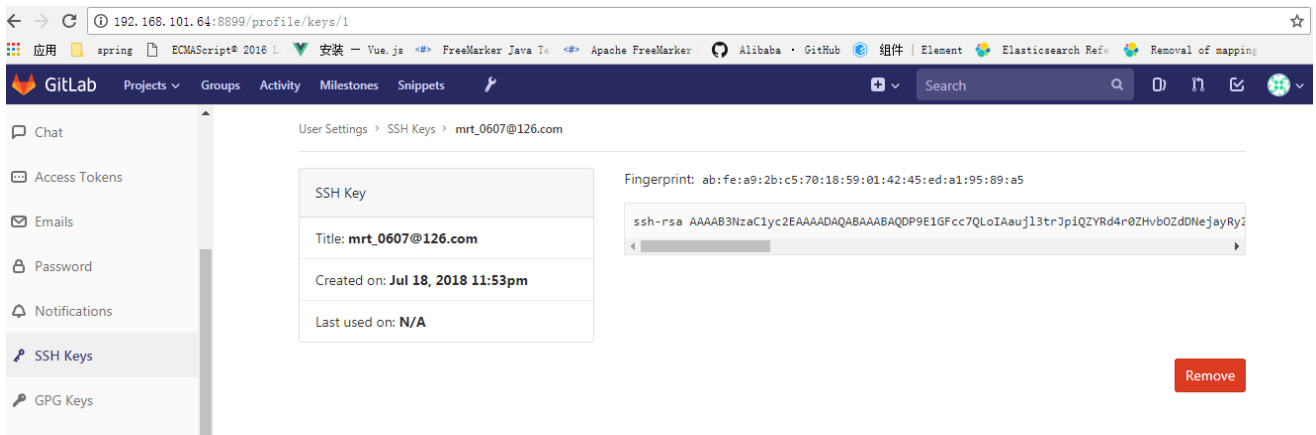
## 2 添加公钥

Jenkins远程访问GitLab获取源代码，这里需要在GitLab配置公钥。

## 1、进入jenkins容器，生成公钥：

```
[root@localhost conf]# docker exec -it jenkins /bin/bash
Error response from daemon: Container
10f316cedd5be97b499db231054a8505ed3b68c36d72cf0e26bbe253cb8a9615 is not running
[root@localhost conf]# docker start jenkins
jenkins
[root@localhost conf]# docker exec -it jenkins /bin/bash
bash-4.4# ssh-keygen -t rsa -C "mrt_0607@126.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Created directory '/root/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:6c5k0DkGUhikicIZzxrOU5+ZvZeKwnvsUkBEuxAW69c mrt_0607@126.com
The key's randomart image is:
+---[RSA 2048]-----+
| oo++o                |
| oo*oo..              |
| =+.*o.               |
| + =.o.B   .          |
| =...B.ES             |
| .... =. .            |
|   .O.+o              |
|   .ooXo              |
|   ..O+oo             |
+-----[SHA256]-----+
bash-4.4# cat ~/.ssh/id_rsa.pub
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDP9E1GFcc7QLoIAauj13trJpiQZYRd4r0ZHvb0ZdNeJayRyZodWu8W1emHaIdn3P
jqzNjkatkIayPL5/ccWmJbZWLNSGusJLaJW+vRxUBSNsG5QBrw7rogJqxhI878DCch7JpFFBe4pVNCQP1W1Ym+jquTn3vVcO
AJZw3UOdRnijYQ0d+AotL5Gmj/7lhHi6L1Dssr8LbyuJFLmZPXzCMpFL68JjcqqJbunWEp06s03GEyYndk1NDuqX0v8XJ0
AXLTfbz3mT0u4irDKyI91mc6loDdYFpAYUSsstwXzVIRcjkZyRQNT0oAXMgROSox+kR0KswoU5aJKFD0ipbx
mrt_0607@126.com
bash-4.4#
```

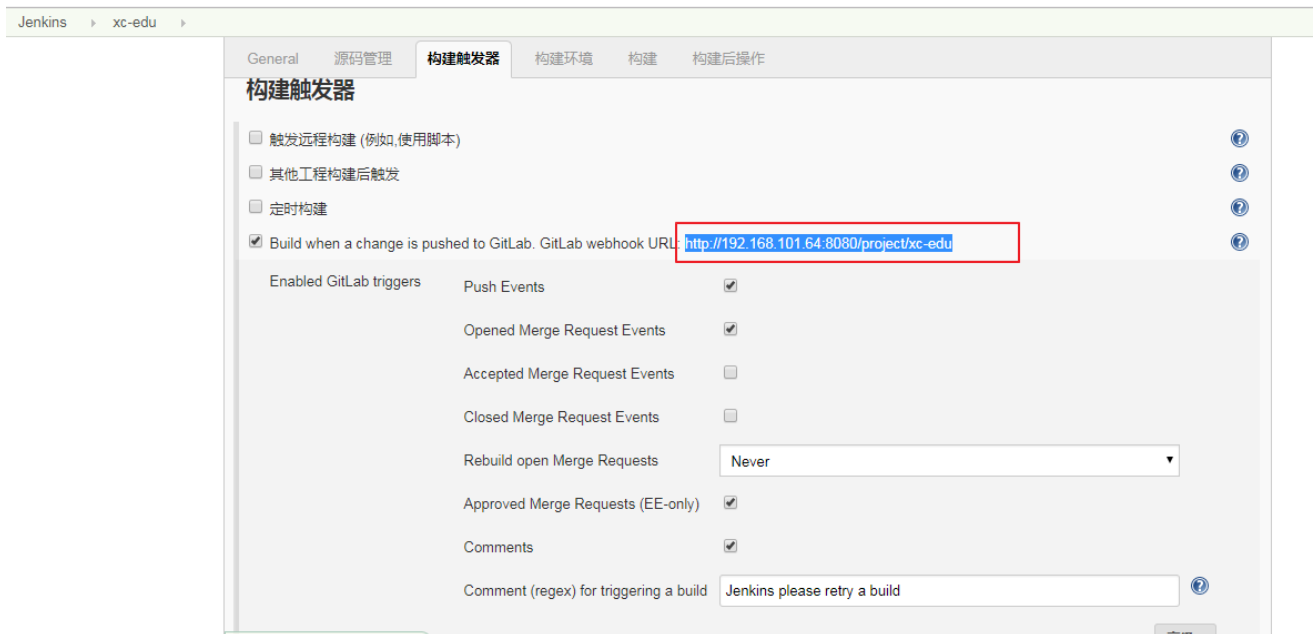
## 2、进入GitLab配置公钥：



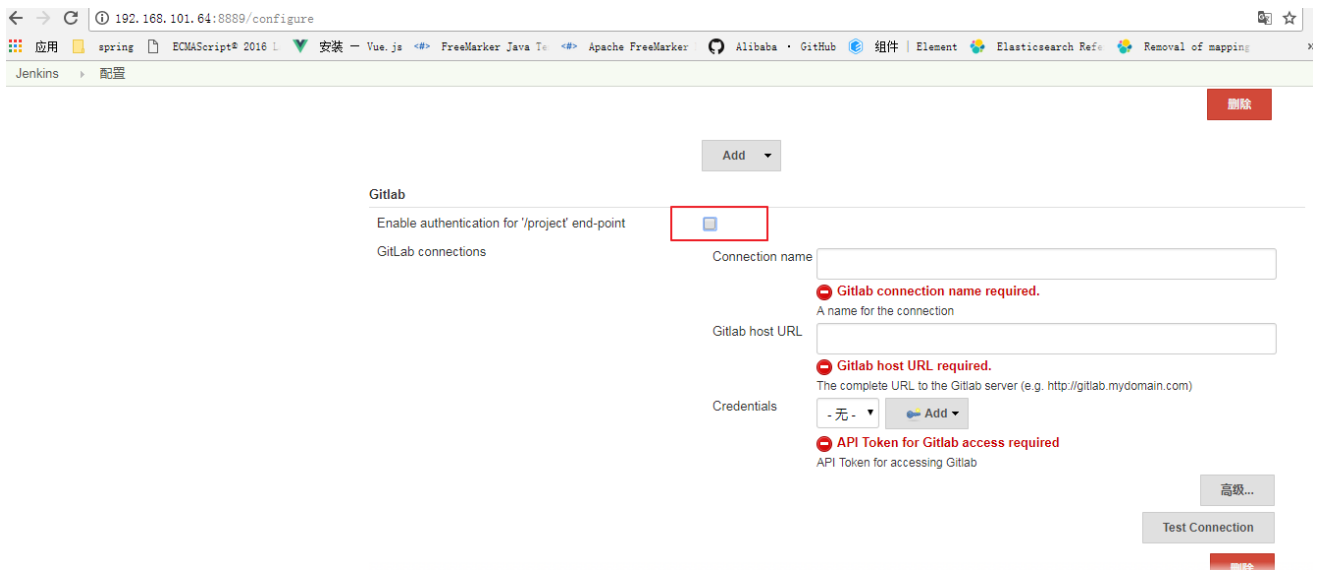
## 3 配置webhook

GitLab中使用webhook向jenkins通知，当有代码push后将通知jenkins进行构建。

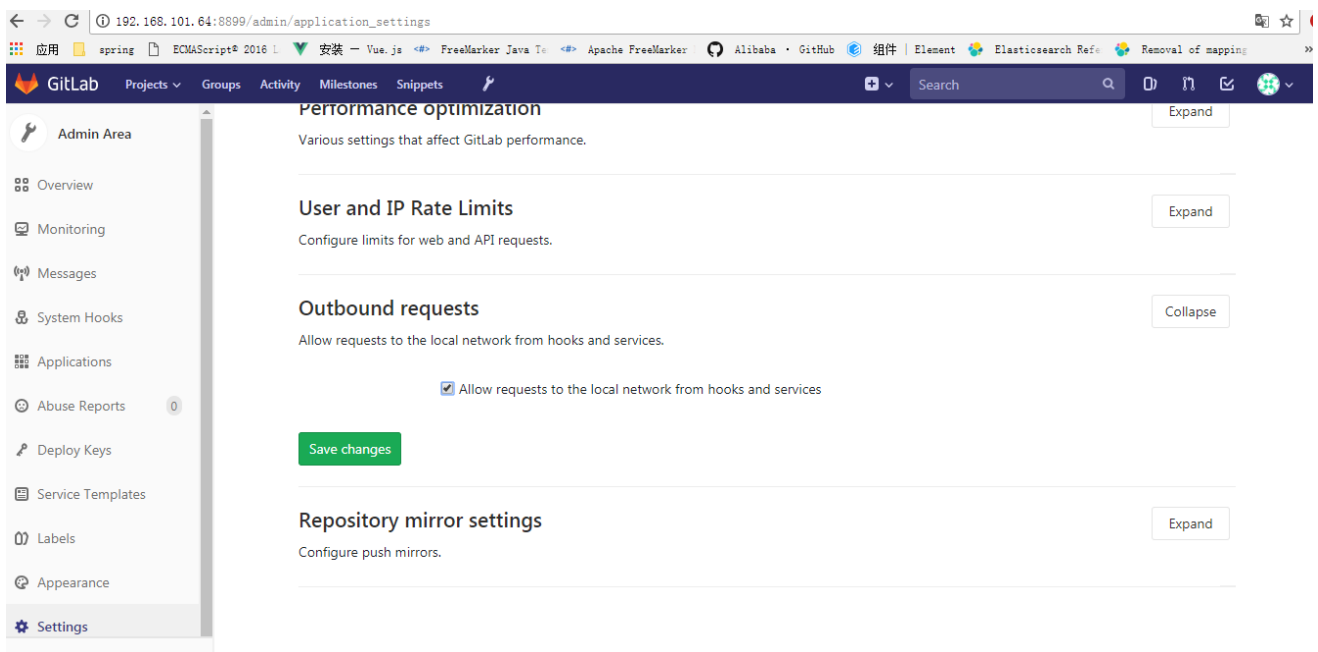
### 1、在Jenkins中找到通知地址



### 2、进入Jenkins设置允许匿名访问jenkins，这样GitLab才要成功通知jenkins



3、使用管理员帐号[admin@example.com](mailto:admin@example.com)登录Gitlab，密码就是你gitlab搭建好之后第一次输入的密码,设置允许请求本地网络服务



4 设置钩子地址，即jenkins中的项目地址

xc-edu01

Project

Repository

Issues0

Merge Requests0

CI / CD

Operations

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Settings

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Administrator > xc-edu01 > Integrations Settings

Integrations

Webhooks can be used for binding events when something is happening within the project.

URL

http://192.168.101.64:8080/project/xc-edu

Secret Token

Use this token to validate received payloads. It will be sent with the request in the X-Gitlab-Token HTTP header.

Trigger

☒ Push events

This URL will be triggered by a push to the repository

☐ Tag push events

This URL will be triggered when a new tag is pushed to the repository

☐ Comments

This URL will be triggered when someone adds a comment

☐ Confidential Comments

This URL will be triggered when someone adds a comment on a confidential issue

钩子添加成功

xc-edu01

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Add webhook

Webhooks (1)

http://192.168.101.64:8080/project/xc-edu

Push Events

SSL Verification: enabled

Edit

Test

Project services

Service	Description	Last edit
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