

# 1 进入GitLab

## 1.1 登录

首先确保电脑连上公司的网络，在公司的局域网下，连上公司wifi即可

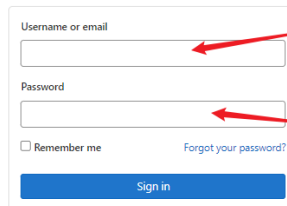
打开<http://172.16.2.211:9990/>，会显示如下界面，并登录

GitLab

A complete DevOps platform

GitLab is a single application for the entire software development lifecycle. From project planning and source code management to CI/CD, monitoring, and security.

This is a self-managed instance of GitLab.

The login form contains two input fields: 'Username or email' and 'Password'. Below the password field are two checkboxes: 'Remember me' and 'Forgot your password?'. At the bottom is a blue 'Sign in' button.

用户名为登录者名字拼音  
e.g. 张三 zhangsan

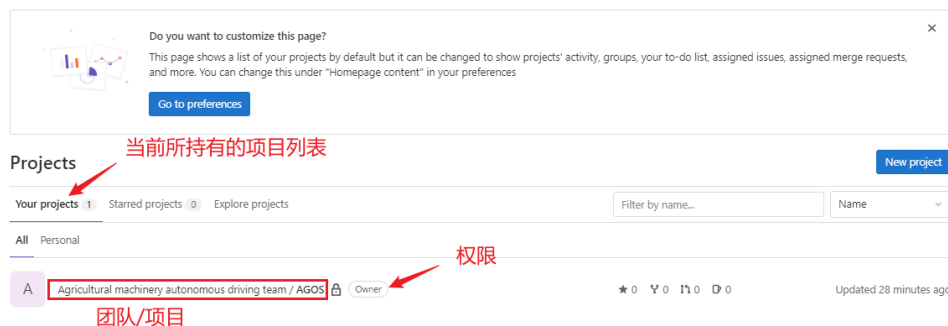
默认密码是用户名@123  
e.g. zhangsan@123

## 1.2 界面介绍

- 默认界面

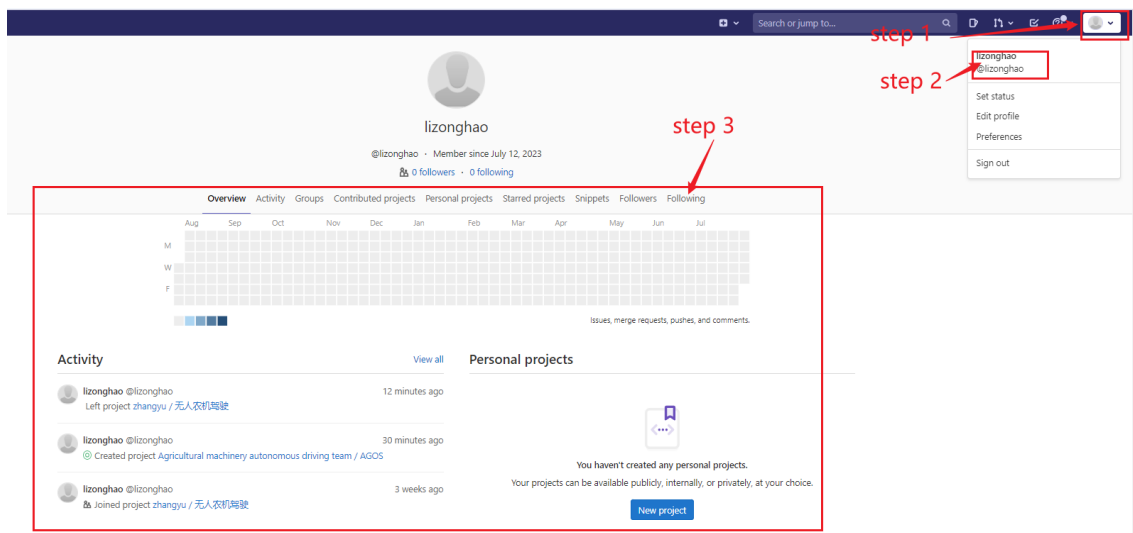
- Your projects

当前持有的项目列表

The screenshot shows the 'Projects' page in GitLab. At the top is a notification box asking to customize the page. Below it, the 'Projects' section has tabs for 'Your projects' (1), 'Starred projects' (0), and 'Explore projects'. A 'Filter by name...' input and a 'Name' dropdown are on the right. Under the 'All' tab, a project is listed: 'Agricultural machinery autonomous driving team / AGOS'. The project name is highlighted with a red box and labeled '团队/项目'. To its right, the role 'Owner' is shown, highlighted with a red box and labeled '权限'. A 'New project' button is in the top right corner. At the bottom right, it says 'Updated 28 minutes ago'.

- 个人界面

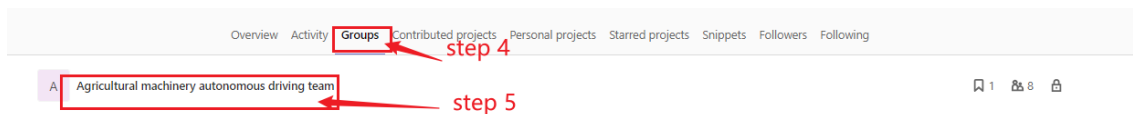
按照如图所示，依次点击 **step 1** **step 2** 可以看到 **step3** 为当前用户的预览



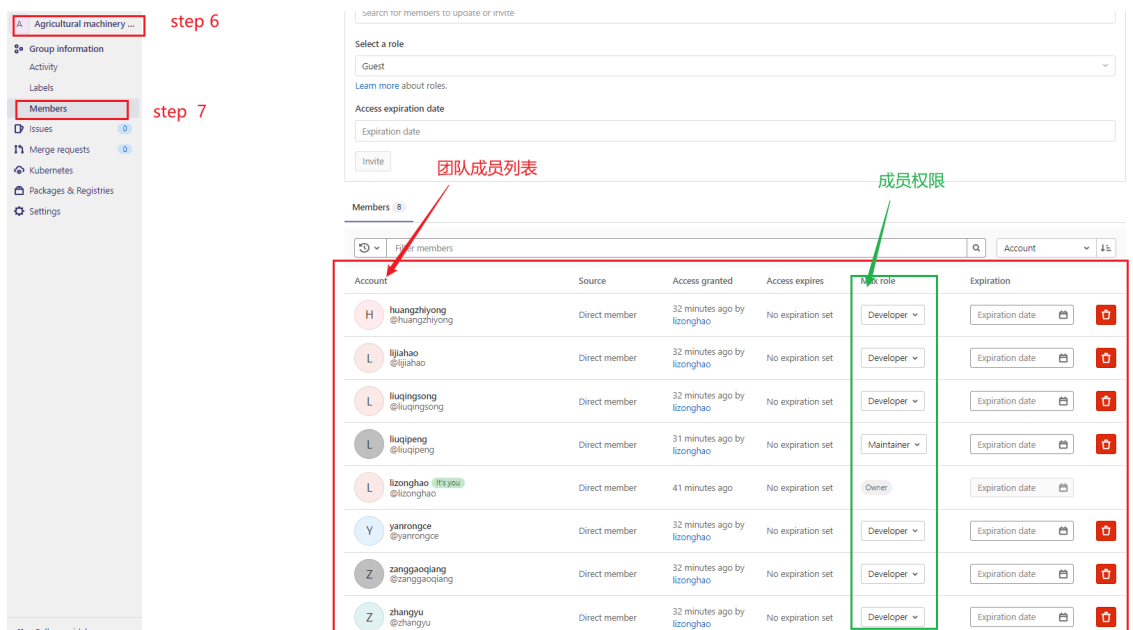
- Overview  
用户状态总览
- Activity  
活动消息
- Groups  
当前所在团队

## 团队界面

依次点击 step 4 step 5 进入团队界面



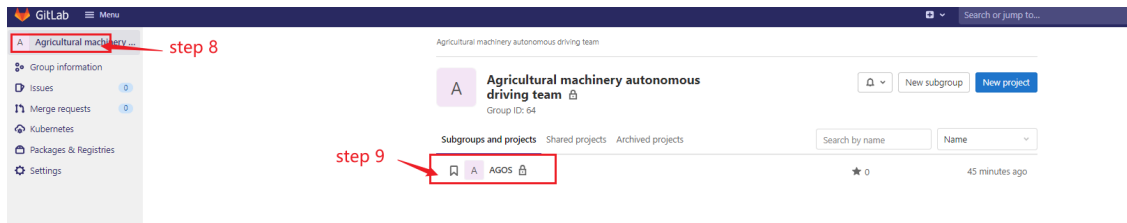
点击 step 6 step 7 可以查看当前团队成员信息



## 1.3 进入项目仓库

- 通过默认界面，直接点击进入项目

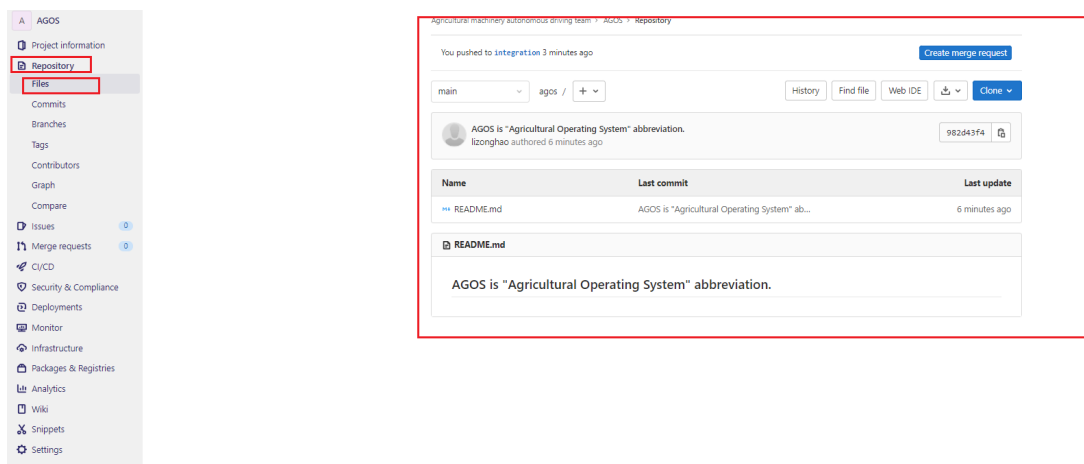
- 点击 step 8 step 9 通过团队持有的项目列表进入项目



## 2 仓库介绍

- AGOS仓库

当前开发仓库名为AGOS，为Agricultural Operating System的缩写



- 分支介绍

- main

主分支，不做合并

- integration

集成分支，主分支的子分支

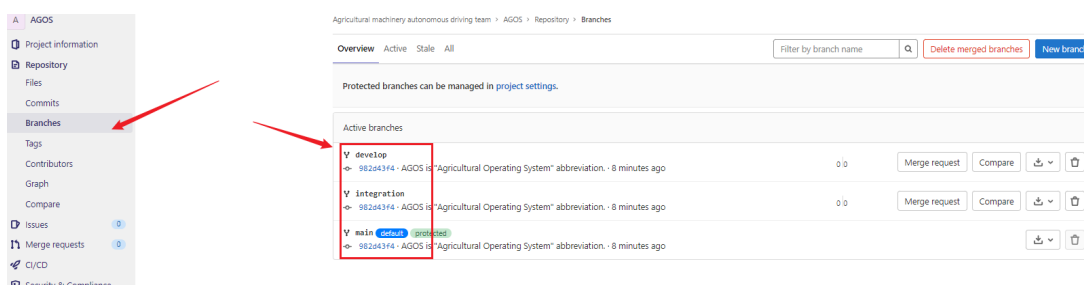
当所有开发完成后，合并到当前分支，

- develop

开发分支，集成分支的子分支

每个开发者开发一个feature时，从develop分支切出一个子分支进行开发，开发完成后合并到develop分支上

develop只能合并到integration分支



## 3 拉取仓库

通过配置ssh-key，可以把仓库和本地电脑通过ssh密钥进行绑定，后续拉取和推送代码可以直接推送，不用输入用户名和密码

### 3.1 配置ssh-key

- 打开git bash
- 输入ssh-keygen.exe

```
ssh-keygen.exe
```

过程中直接enter，可以生成一个ssh key

```
28376@lzh MINGW64 ~/Desktop
$ ssh-keygen.exe
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/28376/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/28376/.ssh/id_rsa
Your public key has been saved in /c/Users/28376/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:u/Y7fJDA1SaUAbcXGM4talenGRyot+5/u+bC7JY4Hf0 28376@lzh
The key's randomart image is:
+----[RSA 3072]-----+
|      .o=*o.      |
|      +==+o      |
|      o=+*   .    |
|      ..++ =      |
|      o.Sooo      |
|      . ...+ .    |
|      ..* + .     |
|      =.X + E     |
|      oo*=O+o     |
+----[SHA256]-----+
28376@lzh MINGW64 ~/Desktop
$ cd
```

- 进入目录

```
cd ~/.ssh
cat id_rsa.pub
```

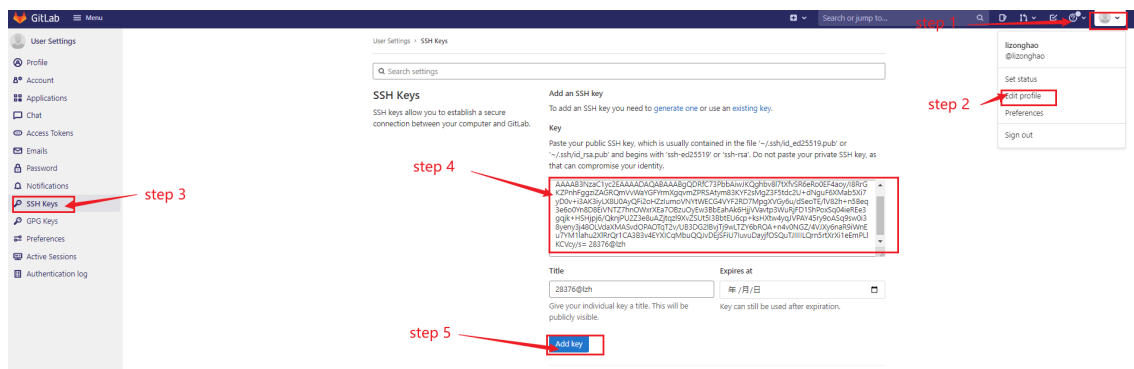
```
28376@lzh MINGW64 ~
$ cd ~/.ssh/

28376@lzh MINGW64 ~/.ssh
$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQBAQCgHbv817tXfvSR6eRo0EF4aoy/I8RrG
KZPnhFggziZAGRQmVv... 5tdc2U+dNguF6XMaB5Xi7yD0v+i3AK3i
yLX8U0AyQFi2oHZzIumoVNYtWECG4VYF2RD7MpgXVGy6u/dSeoTE/1V82h+n5Beq3e6o0Yn8D8EiVNTZ7hn
0WxrXEa70BzuOyEw3BbEahAk6HjjVVavtp3WuRjFD1ShPoxSq04ieREe3gqjk+HSHjppj6/QknjPU2Z3e8uA
Zjtqz19XvZSut5I3Bht... 180LVdaXMASvd0PAOTqT2v
/UB3DG21BvjTj9wL... CA3B3v4EYXICqMbuQQJ
vDEjSF-iU7IuvuDayj... lzh

28376@lzh MINGW64 ~/.ssh
$ |
```

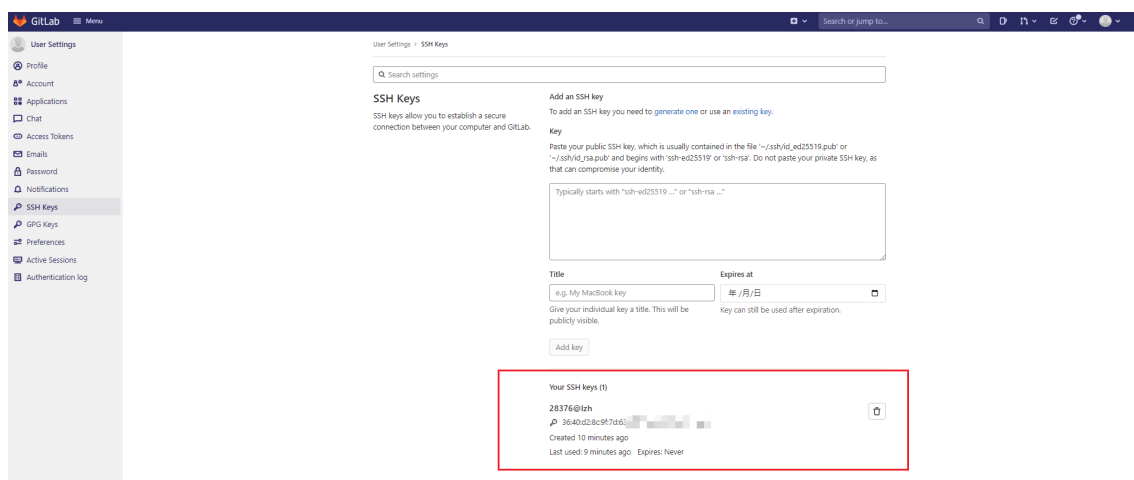
- gitlab添加ssh key

在step5中粘贴刚才git bash中显示的key



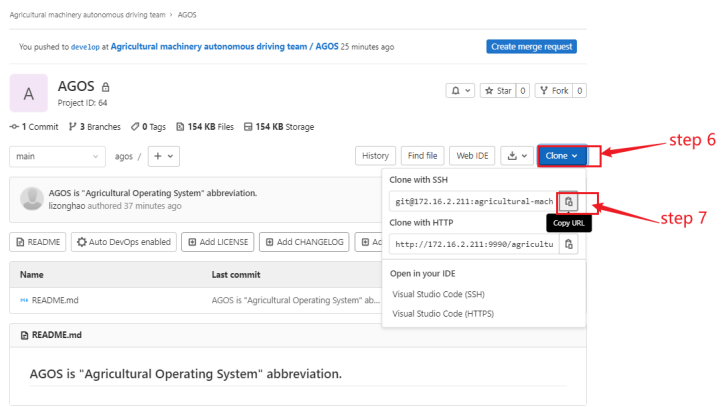
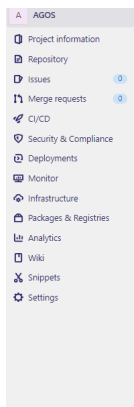
- 添加完成

刷新当前界面



## 3.2 拉取仓库代码

- 进入仓库界面，通过 step 7 点击 Clone with SSH 选项的按钮



- 在你所处的目录下，打开git bash，拉取代码

```
28376@lzh MINGW64 ~/Desktop
$ git clone git@172.16.2.211:agricultural-machinery-autonomous-driving-team/agos.git
Cloning into 'agos'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

28376@lzh MINGW64 ~/Desktop
$ cd agos/

28376@lzh MINGW64 ~/Desktop/agos (main)
$ ls
README.md

28376@lzh MINGW64 ~/Desktop/agos (main)
$ cat README.md
## AGOS is "Agricultural Operating System" abbreviation.

28376@lzh MINGW64 ~/Desktop/agos (main)
```