

gerrit用户手册

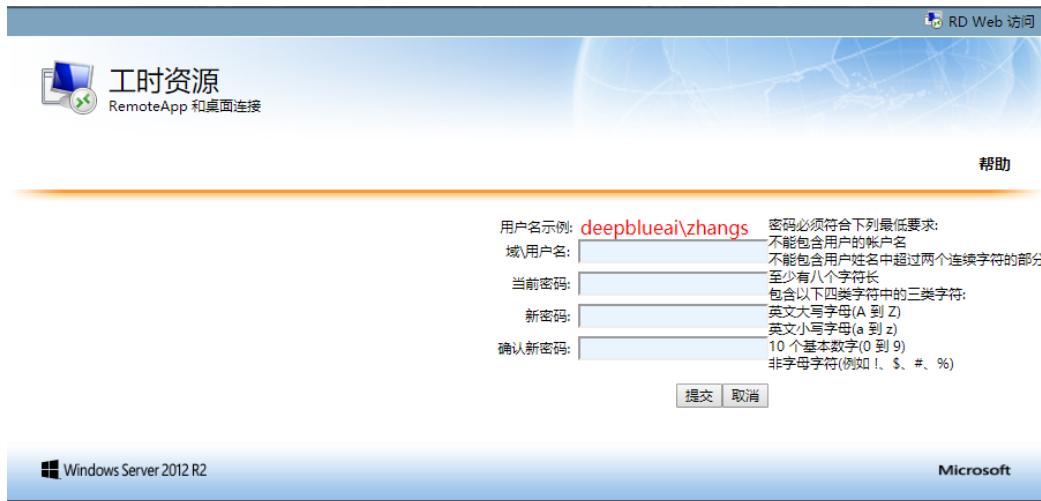
一、什么是gerrit

gerrit，是一种开放源代码的代码审查软件，使用网页界面。利用网页浏览器，同一个团队的软件开发者，可以相互审阅彼此修改后的代码，决定是否能够提交、回退或是继续修改。它使用版本控制系统Git作为底层。

二、用户初始化

新员工入职后，IT会给新员工开通账户和邮箱，账户开通后，需要重置密码，才可以使用，重置过程如下：

进入该地址，修改个人密码<https://192.168.16.202/RDWeb/Pages/password.aspx>

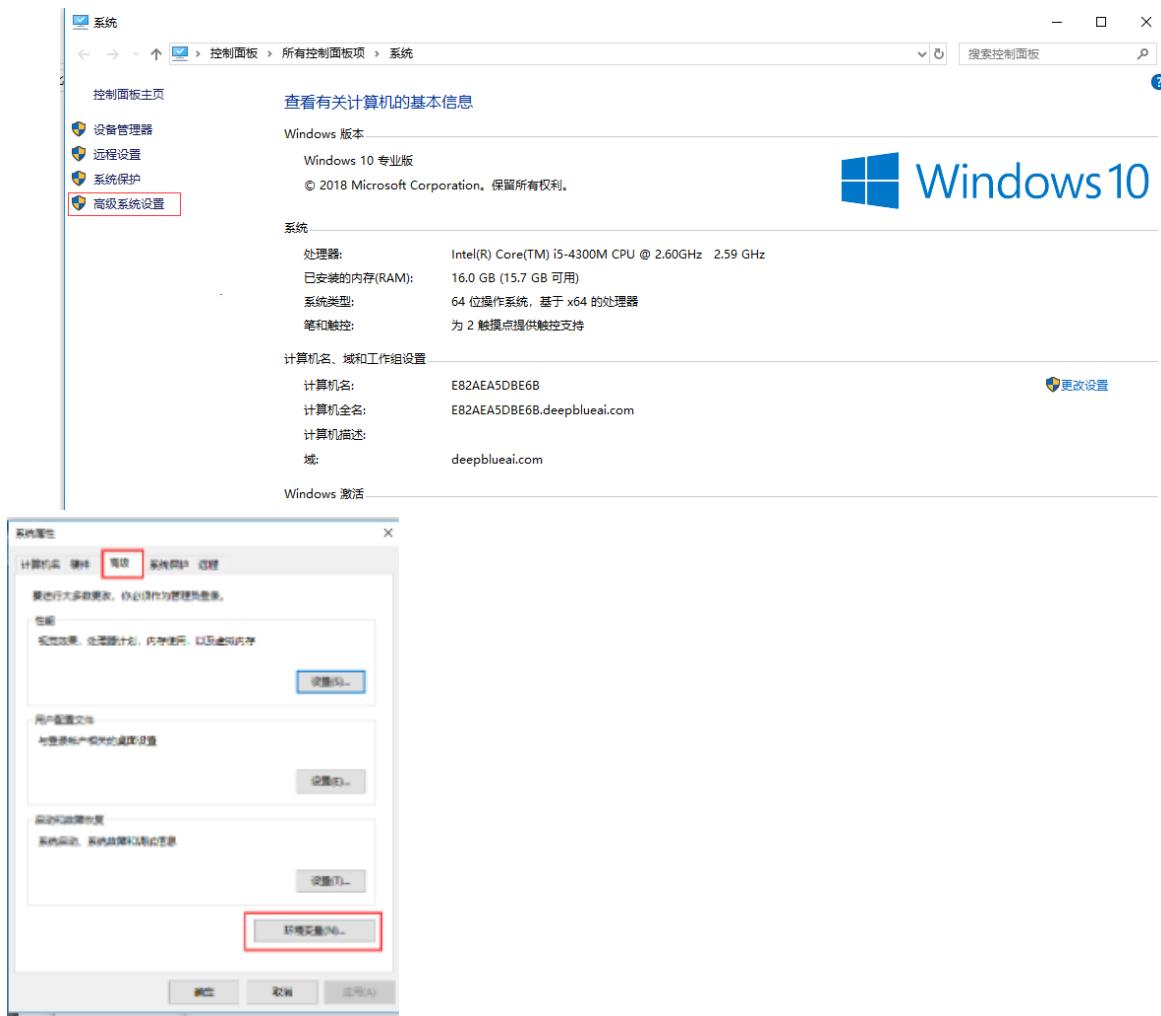


三、安装gerrit依赖

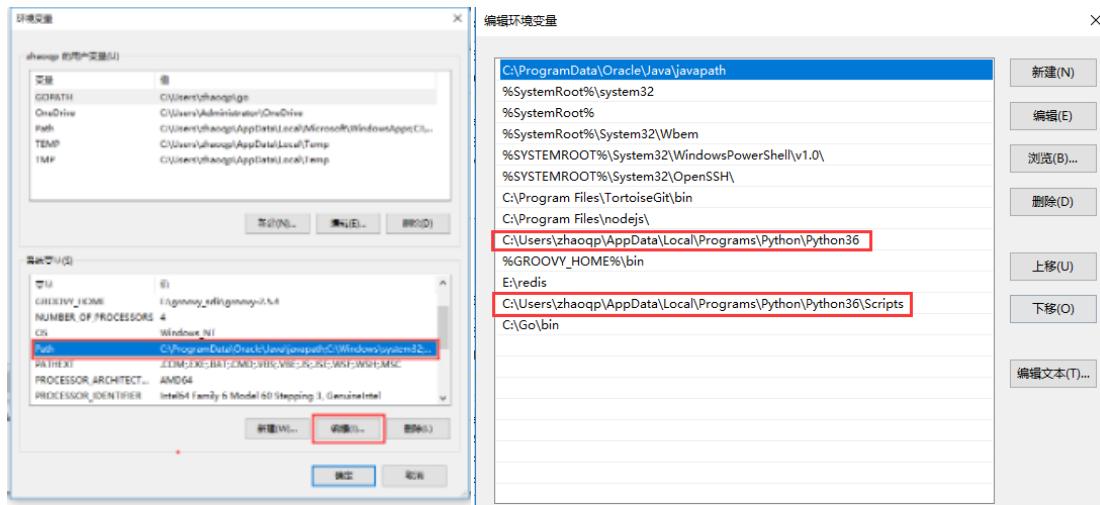
1. 安装python，地址：<https://www.python.org/downloads/>，进入该地址，请自行查找相关版本，进行安装。

2. 环境变量，安装好python后，需要定义python环境变量，定义如下：

计算机→属性→高级系统设置→高级→环境变量

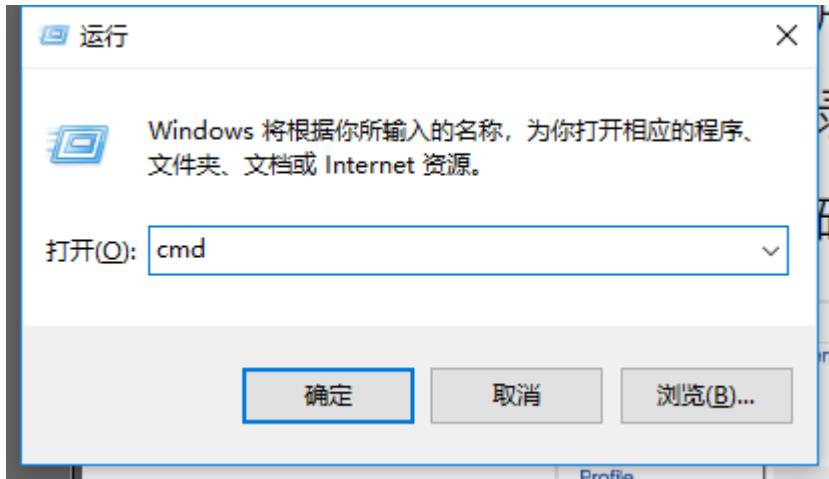


在系统变量中, 找到Path选项, 选择编辑, 并将python安装路径, 加入到其中。



设置完成后, 点击确定, 保存环境变量配置信息。

验证: 开始->运行->“输入cmd” → 确定



输入python和pip，可以看到：

```
C:\命令提示符
C:\Users\zhaopq>python
Python 3.6.4 (v3.6.4:d483e011c28, Dec 19 2017, 06:54:40) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> quit()

C:\Users\zhaopq>pip -V
pip 9.0.1 from c:\users\zhaopq\appdata\local\programs\python\python36\lib\site-packages (python 3.6)

C:\Users\zhaopq>
```

3. 安装git-review

输入`pip install git-review`，安装git-review插件

```
C:\Users\zhaopq>pip install review
Collecting review
  Downloading https://files.pythonhosted.org/packages/3f/be/b9a58cd23d4e82fb8cd827e824b1152b3fb746ab6a9c4fa8e52b32bb8055
    /review-1510.zip
Installing collected packages: review
  Running setup.py install for review ... done
Successfully installed review-1510
You are using pip version 9.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\zhaopq>
```

四、安装git bash

打开浏览器，输入地址：<https://git-scm.com/downloads>，选择自己需要的版本，进行安装。

五、生成ssh密钥，初始化git bash，在gerrit中添加用户ssh密钥。

打开git bash软件，分两种情况，

1. 使用域账号登陆的用户，输入`ssh-keygen -t rsa`
2. 使用非域账号登陆的用户，输入`ssh-keygen -t rsa -C "yourname@deepblueai.com"`

上述两种用户，生成ssh密钥后，对git进行设置global权限，设置为：

```
git config --global user.name "ad账号"
git config --global user.email "yourname@deepblueai.com"
git config --global gitreview.username "ad账号"
```

查询是否设置成功：`git config --global -l`

```
zhaopq@E82AEA5DBE6B MINGW64 /e
$ git config --global -l
winupdater.recentlyseenversion=2.19.1.windows.1
user.name=zhaopq
user.email=zhaopq@deepblueai.com
```

将生成好的ssh密钥，添加到gerrit中，如图：

The screenshot shows a browser window with the URL <http://gerrit.deepblueai.com/#/q/status:open>. The title bar says "status:open | gerrit.deepblueai.com". The page header includes links for "All", "Projects", "Documentation", "Open", "Merged", and "Abandoned". A search bar at the top right contains the query "status:open". Below the search bar is a table with columns: Subject, Status, Owner, Project, Branch, Updated, and Size. There are no results listed in the table. At the bottom of the page, there is a footer note: "Powered by Gerrit Code Review (2.15.3) | Switch to New UI | Press '?' to view keyboard shortcuts".

Sign In to Gerrit Code Review at gerrit.deepblueai.com

Username

Password

Remember me

[Cancel](#)

The screenshot shows a user profile page for "zhaopq" on gerrit.deepblueai.com. The top navigation bar has links for "All", "My", "Projects", "People", "Plugins", and "Documentation". The search bar at the top right contains the query "status:open". The main area displays the user's profile picture (a red square with white text), name "赵庆鹏", email "zhaopq@deepblueai.com", and a "Settings" button. The "Settings" button is highlighted with a red box.

The screenshot shows the "Settings" page under the "Profile" tab. On the left, there is a sidebar with links: Profile, Preferences, Diff Preferences, Edit Preferences, Watched Projects, Contact Information, **SSH Public Keys** (which is highlighted with a red box), Identities, and Groups. The main content area is titled "Add SSH Public Key" and contains a sub-section "How to Generate an SSH Key". It features a large text input field for pasting the key, with "Clear" and "Add" buttons below it. At the bottom of the main content area, there is a link "Server Host Key".

生成好的ssh密钥，一般存放在c:\Users\yourname\.ssh\id_rsa.pub文件中。

```
zhaopq@E82AEA5DBE6B MINGW64 ~/.ssh (master)
$ ls
id_rsa  id_rsa.pub  known_hosts
```

```
zhaopq@E82AEA5DBE6B MINGW64 ~/.ssh (master)
$ pwd
/c/Users/zhaop/.ssh
```

执行cat id_rsa.pub，拿到用户公钥，复制粘贴进入上面看到的，gerrit "add ssh public key"中。

```
zhaopq@E82AEA5DBE6B MINGW64 ~/.ssh (master)
$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQChwq24sA0C19epDE45ygerNKkT0oi4aGbIe9P4nTcQvbZK26uj0mkagweM
0FYL5cZwoxBerZq45iyowl+HBqmRLtcctwNyIRCFQGRmix1M70cyGEwkZ416q/Dhfg08kXIy817fYtz
CBIOntAUgBCCMWwsB1Z/F42gFmif/Tp5Fjx3HihEDVKV2tJD/5LmneMlk4UaDNBeCYFVKQTovfFEzrh1
erFaUfQZv1FIx1VDe3Ne0yUXz+ms3FXnnZBJYMp8VT9cdLKn/SdqvFCAIrrr zhaopq@E82AEA5DBE6B
```

All My Projects People Plugins Documentation

Open Merged Abandoned

Settings

Profile Preferences Diff Preferences Edit Preferences Watched Projects Contact Information **SSH Public Keys** Identities Groups

Add SSH Public Key

► How to Generate an SSH Key

```
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQChwq24sA0C19epDE45ygerNKkT0oi4aGbIe9P4nTcQvbZK26uj0mkagweM
0FYL5cZwoxBerZq45iyowl+HBqmRLtcctwNyIRCFQGRmix1M70cyGEwkZ416q/Dhfg08kXIy817fYtz
CBIOntAUgBCCMWwsB1Z/F42gFmif/Tp5Fjx3HihEDVKV2tJD/5LmneMlk4UaDNBeCYFVKQTovfFEzrh1
erFaUfQZv1FIx1VDe3Ne0yUXz+ms3FXnnZBJYMp8VT9cdLKn/SdqvFCAIrrr zhaopq@E82AEA5DBE6B
```

Clear **Add**

Server Host Key

Fingerprint:

Status	Algorithm	Key	Comment
ssh-rsa	AAAAB3NzaC1yc2EAAAQABAAQChwq24sA0C19epDE45ygerNKkT0oi4aGbIe9P4nTcQvbZK26uj0mkagweM 0FYL5cZwoxBerZq45iyowl+HBqmRLtcctwNyIRCFQGRmix1M70cyGEwkZ416q/Dhfg08kXIy817fYtz CBIOntAUgBCCMWwsB1Z/F42gFmif/Tp5Fjx3HihEDVKV2tJD/5LmneMlk4UaDNBeCYFVKQTovfFEzrh1 erFaUfQZv1FIx1VDe3Ne0yUXz+ms3FXnnZBJYMp8VT9cdLKn/SdqvFCAIrrr zhaopq@E82AEA5DBE6B		

All My Projects People Plugins Documentation

Open Merged Abandoned

Settings

Profile Preferences Diff Preferences Edit Preferences Watched Projects Contact Information **SSH Public Keys** Identities Groups

Status	Algorithm	Key	Comment
ssh-rsa	AAAAB3NzaC1yc2EAAAQABAAQChwq24sA0C19epDE45ygerNKkT0oi4aGbIe9P4nTcQvbZK26uj0mkagweM 0FYL5cZwoxBerZq45iyowl+HBqmRLtcctwNyIRCFQGRmix1M70cyGEwkZ416q/Dhfg08kXIy817fYtz CBIOntAUgBCCMWwsB1Z/F42gFmif/Tp5Fjx3HihEDVKV2tJD/5LmneMlk4UaDNBeCYFVKQTovfFEzrh1 erFaUfQZv1FIx1VDe3Ne0yUXz+ms3FXnnZBJYMp8VT9cdLKn/SdqvFCAIrrr zhaopq@E82AEA5DBE6B		

Server Host Key

Fingerprint: 5e:a6:ca:0a:03:58:56:7c:2f:6f:83:3f:c1:9b:74:43

Entry for ~/.ssh/known_hosts: [gerrit.deepblueai.com]:29418 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTIt...uvVjzeVzc=

Server Host Key

Fingerprint: 47:f4:ec:81:b9:ff:c1:45:ca:32:6c:be:7c:43:12:e0

Entry for ~/.ssh/known_hosts: [gerrit.deepblueai.com]:29418 ecdsa-sha2-nistp384 AAAAE2VjZHNhLXNoYTIt...JulgNrsQ==

六、配置.gitreview文件

.gitreview文件，是在代码git commit后，进行代码评审的操作。配置文件如下：

```
vim .gitreview
[gerrit]
host = gerrit.deepblueai.com
```

```
port = 29418  
project = yourproject
```

保存，并提交到gerrit。

七、本地代码提交（git review）

一般常用命令：

1. git init: 初始化git仓库
2. git clone: 复制一个git仓库
3. git add: 添加文件到缓存
4. git status: 查看你的文件在工作目录与缓存的状态
5. git diff: 现实已写入缓存与已修改，但尚未写入缓存的改动的区别
6. git commit: 记录缓存内容的快照
7. git reset HEAD: 取消缓存已经缓存的内容
8. git rm: 将文件从缓存区移除
9. git branch: 列出、创建与管理工作
10. git checkout: 切换到新的分支
11. git merge: 将分支合并到你的当前分支
12. git log: 显示一个分支中提交的更改记录
13. git tag: 给历史记录中的某个重要的一点打上标签
14. git remote: 罗列、添加和删除远端仓库别名
15. git fetch: 从远端仓库下载新分支与数据
16. git pull: 从远端仓库提取数据并尝试合并到当前分支
17. git push: 推送你的新分支与数据到某个远端仓库

八、Verify及CodeReview

开发人员将代码提交后，到gerrit页面中，进行codereview，过程如下：

1. git review后，在gerrit中，会看到：

Subject	Status	Owner	Project	Branch	Updated	Size	CR_V
modify README.md file	Work in progress	赵庆鹏	groovy_script	master	8:47 PM	1	✓
add about building API	Merge Conflict	liushuheng	BKD_smartgate	master (master-gerrit)	8:19 PM	1	✗
结账台增加微信支付		jinwj	quixmart1-pos-windows	master	7:07 PM	1	✓
移动餐车订单提交		lijx	BKD_quixmart2	master	7:00 PM	1	✗
fpga_jfh_new		李江辉	aichip	master	6:48 PM	1	✓
fpga_jfh		李江辉	aichip	master	6:38 PM	1	✓
add gerritinfo web'		guoys	PAI_All_Projects	master	6:33 PM	1	✓
优化补货下架界面、修复关门时数据修改不成功问题		liz	quixmart2.0-business-op-ios-react-native	master	6:25 PM	1	✓
source file		陈先强	aichip	master	6:19 PM	1	✓
modify the main function to support multi-process and multi-thread	Work in progress	caizh@deepblueai.com	aiot	master	6:12 PM	1	✓
luobing		骑兵	aichip	master	6:06 PM	1	✓
XDMA仿真		李威	aichip	master	6:02 PM	1	✓
software_qyx		邱云香	aichip	master	5:55 PM	1	✓
software_qyx		邱云香	aichip	master	5:55 PM	1	✓
add ddr_model file		王龙飞	aichip	master	5:53 PM	1	✓
algorithm-lif		刘芳	aichip	master	5:53 PM	1	✓
software_qyx		邱云香	aichip	master	5:46 PM	1	✓
add readme file		王龙飞	aichip	master	5:45 PM	1	✓
add python code generate_FourKList_and_registerList		骆娜娜	aichip	master	5:36 PM	1	✓
zhaoxin	Merge Conflict	赵昕	learning-fashion	master	5:21 PM	1	✗
census立体匹配算法		牛茂龙	aichip	master	4:53 PM	1	✓
hotel		huwf	learning-nlp	master	4:51 PM	1	✓
convert data structure		邱亮	aichip	master	4:41 PM	1	✓
app		huwf	learning-nlp	master	2:28 PM	1	✓
Add weekly report.		Zhonglei Wang	PAI_All_Projects	master	2:17 PM	1	✓

2. 点击subject下面的内容，进入到代码评审页面

All My Projects People Plugins Documentation

Search term

Change 4979 - Needs Verified Label

modify README.md file

Change-Id: I76e5b15a424fe9323204bb4a5582bbd34dd6cb0d

Owner 赵庆鹏
Assignee
Reviewers
Project groovy_script
Branch master
Topic
Strategy Merge if Necessary
Uploaded 5 minutes ago

Cherry Pick Move Change Rebase Abandon Delete Change

Follow-Up Mark Private Mark Reviewed WIP

Code-Review
Verified

Author zhaop <zhaop@deepblueai.com> Nov 28, 2018 8:51 PM
Committer zhaop <zhaop@deepblueai.com> Nov 28, 2018 8:51 PM
Commit 43350d75402ca3448f30011947e930a1cc371689
Parent(s) f87ce342b8410a9917271c1becf3a2f93759648d
Change-Id I76e5b15a424fe9323204bb4a5582bbd34dd6cb0d

Files Open All Diff against: Base Edit

File Path Commit Message README.md

Comments Size 1 +1, -0

History 赵庆鹏 Uploaded patch set 1. 8:47 PM

Powered by Gerrit Code Review (2.1)

3. 开发人员，需要指定codereview的人员，例如：开发主管，开发经理等。

All My Projects People Plugins Documentation

Search term

Change 4979 - Needs Verified Label

modify README.md file

Change-Id: I76e5b15a424fe9323204bb4a5582bbd34dd6cb0d

Owner 赵庆鹏
Assignee
Reviewers zhum
Name or Email or Group Add Cancel

Project groovy_script
Branch master
Topic
Strategy Merge if Necessary
Uploaded 5 minutes ago

Cherry Pick Move Change Rebase Abandon Delete Change

Follow-Up Mark Private Mark Reviewed WIP

4. 在开发主管或者开发经理进行Verify后，页面变化为：

Author zhaop <zhaop@deepblueai.com>
Committer zhaop <zhaop@deepblueai.com>
Commit 43350d75402ca3448f30011947e930a1cc371689
Parent(s) f87ce342b8410a9917271c1becf3a2f93759648d
Change-Id I76e5b15a424fe9323204bb4a5582bbd34dd6cb0d

Nov 28, 2018 8:51 PM
Nov 28, 2018 8:51 PM
(browse)
(browse)

Code-Review
Verified +1 赵庆鹏

5. 在开发主管或者开发经理进行codereview后，页面变化为：

Change 4979 - Ready to Submit

modify README.md file

Change-Id: I76e5b15a424fe9323204bb4a5582bbd34dd6cb0d

Owner 赵庆鹏
Assignee
Reviewers zhum 赵庆鹏
Project groovy_script
Branch master
Topic
Strategy Merge if Necessary
Updated 4 minutes ago

Cherry Pick Move Change Rebase Abandon Delete Change

Follow-Up Mark Private Mark Reviewed WIP Submit

Code-Review +2 赵庆鹏
Verified +1 赵庆鹏

Files Open All Diff against: Base Edit

6. codereview后，代码还没有入仓，必须要进行submit，才可以入仓，入仓后，页面变化为：

九、仓库初始权限设置及含义

每个部门的仓库在初始建立时，会进行权限的初始化，初始化权限为：

Project SZ_All_Projects

其中：Owner→项目所有者，对该项目有完全控制权限，可对该项目进行设置和权限管控

Read→只读，对该项目的可读取权限

Push→推送，对该项目具有可以远端推送的权限

Label Code-Review→代码审查复核，对该项目具有代码审查复核权限

Label Verified→代码审查，对该项目具有代码审查权限

Submit→提交，对该项目具有提交入仓的权限