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## **/\* git的两种部署方式 \*/**

### **##Yum安装方式**

```
[root@git ~]# yum -y install git
已加载插件: fastestmirror
Loading mirror speeds from cached hostfile
软件包 git-1.8.3.1-14.el7_5.x86_64 已安装并且是最新版本
无须任何处理

[root@git ~]# git config --global user.name bavdu
[root@git ~]# git config --global user.email bavduer@163.com
```

### **##源码安装最新版**

```
[root@git ~]# wget https://mirrors.edge.kernel.org/pub/software/scm/git/git-2.9.5.tar.gz
[root@git ~]# yum install curl-devel expat-devel gettext-devel openssl-devel zlib-devel
[root@git ~]# yum install perl-ExtUtils-MakeMaker gettext-devel

[root@git ~]# tar xf git-2.9.5.tar.gz
[root@git ~]# cd git-2.9.5
[root@git ~]# make prefix=/usr/local all
[root@git ~]# make prefix=/usr/local install
[root@git ~]# git --version
git version 2.9.5
[root@git ~]# git config --global user.name bavdu
[root@git ~]# git config --global user.email bavduer@163.com
```

## **/\* git的工作流程 \*/**

1. 初始化、提交、查看修改、版本回退

## ##初始化

```
[root@git ~]# mkdir /InitWebServer
[root@git ~]# cd /InitWebServer/
[root@git InitWebServer]# git init
初始化空的 Git 仓库于 /InitWebServer/.git/
```

## ##提交

```
[root@git InitWebServer]# cat README
##Git Version Control 2.9.5
- Author: bavdu
- Email: bavduer@163.com
- Github: https://github.com/bavdu
---
This page is study git version control.
git is a free software.

[root@git InitWebServer]# git add README
[root@git InitWebServer]# git commit -m "write a distribution"
[master (根提交) 6fd28a8] write a distribution
1 file changed, 9 insertions(+)
create mode 100644 README
[root@git InitWebServer]#
```

## ##查看修改

```
[root@git InitWebServer]# vim README
[root@git InitWebServer]# git status
位于分支 master
尚未暂存以备提交的变更:
    (使用 "git add <文件>..." 更新要提交的内容)
    (使用 "git checkout -- <文件>..." 丢弃工作区的改动)
```

修改: README

修改尚未加入提交 (使用 "git add" 和/或 "git commit -a")

```
[root@git InitWebServer]# git diff README
diff --git a/README b/README
index 071b021..f190a0b 100644
--- a/README
+++ b/README
@@ -7,4 +7,4 @@
```

```
    This page is study git version control.
    git is a free software.
-distribution distribution
+distribution
[root@git InitWebServer]# git add README
[root@git InitWebServer]# git status
位于分支 master
```

要提交的变更：

(使用 `"git reset HEAD <文件>..."` 以取消暂存)

修改：        README

```
[root@git InitWebServer]# git commit -m "add distribution"
[master 2c4f4cb] add distribution
1 file changed, 1 insertion(+), 1 deletion(-)
[root@git InitWebServer]# git status
位于分支 master
nothing to commit, working tree clean
[root@git InitWebServer]#
```

总结：

- 要随时掌握工作区的状态，使用git status命令
- 如果git status告诉你有文件被修改过，用git diff可以查看修改内容

### ##版本回退

```
[root@git InitWebServer]# vim init_webserver.sh
[root@git InitWebServer]# sed -ri s/Prepare/prePare/g init_webserver.sh
[root@git InitWebServer]# git add init_webserver.sh
[root@git InitWebServer]# git commit -m "modfiy Prepare to prePare"
[master 2cc83f7] modfiy Prepare to prePare
1 file changed, 29 insertions(+)
create mode 100644 init_webserver.sh
[root@git InitWebServer]# sed -ri s/upgrade/update/g init_webserver.sh
[root@git InitWebServer]# git add init_webserver.sh
[root@git InitWebServer]# git commit -m "modfiy upgrade to update"
[master 1885322] modfiy upgrade to update
1 file changed, 1 insertion(+), 1 deletion(-)
[root@git InitWebServer]# sed -ri s/selinux/SELinux/g init_webserver.sh
[root@git InitWebServer]# git add init_webserver.sh
[root@git InitWebServer]# git commit -m "modfiy selinux to SELinux"
[master f55a9c6] modfiy selinux to SELinux
1 file changed, 2 insertions(+), 2 deletions(-)
[root@git InitWebServer]#
```

```
[root@git InitWebServer]# git log
commit f55a9c661ef05d00b2964d98a62ce6cba789a285
Author: bavdu <bavduer@163.com>
Date: Sat Nov 10 22:21:50 2018 +0800
```

modfiy selinux to SELinux

```
commit 18853229eff76b911724105831143a8ecfbc5fd0
Author: bavdu <bavduer@163.com>
Date: Sat Nov 10 22:20:59 2018 +0800
```

modfiy upgrade to update

```
commit 2cc83f785e4f2302158514fe49c10296d8c3fab2
Author: bavdu <bavduer@163.com>
Date: Sat Nov 10 22:19:51 2018 +0800
```

modfiy Prepare to prePare

```
[root@git InitWebServer]# git log --pretty=oneline
f55a9c661ef05d00b2964d98a62ce6cba789a285 modfiy selinux to SELinux
18853229eff76b911724105831143a8ecfbc5fd0 modfiy upgrade to update
2cc83f785e4f2302158514fe49c10296d8c3fab2 modfiy Prepare to prePare
2c4f4cbe47394117a2fa18825166d804d4215eb9 add distribution
e43d1289b47bc1558e482758d456756ae40a1bc4 add word distribution.
5a96a0cb2acb49a10d9dbf109706689f909ad756 add word distribution.
6fd28a839c545e8450079d403cb62e293332a9ae write a distribution
```

```
[root@git InitWebServer]# git reset --hard
18853229eff76b911724105831143a8ecfbc5fd0
HEAD 现在位于 1885322 modfiy upgrade to update
```

```
[root@git InitWebServer]# git reflog
1885322 HEAD@{0}: reset: moving to
18853229eff76b911724105831143a8ecfbc5fd0
f55a9c6 HEAD@{1}: reset: moving to f55a9c6
1885322 HEAD@{2}: reset: moving to HEAD^
f55a9c6 HEAD@{3}: commit: modfiy selinux to SELinux
1885322 HEAD@{4}: commit: modfiy upgrade to update
2cc83f7 HEAD@{5}: commit: modfiy Prepare to prePare
2c4f4cb HEAD@{6}: commit: add distribution
e43d128 HEAD@{7}: commit: add word distribution.
5a96a0c HEAD@{8}: commit: add word distribution.
6fd28a8 HEAD@{9}: commit (initial): write a distribution
```

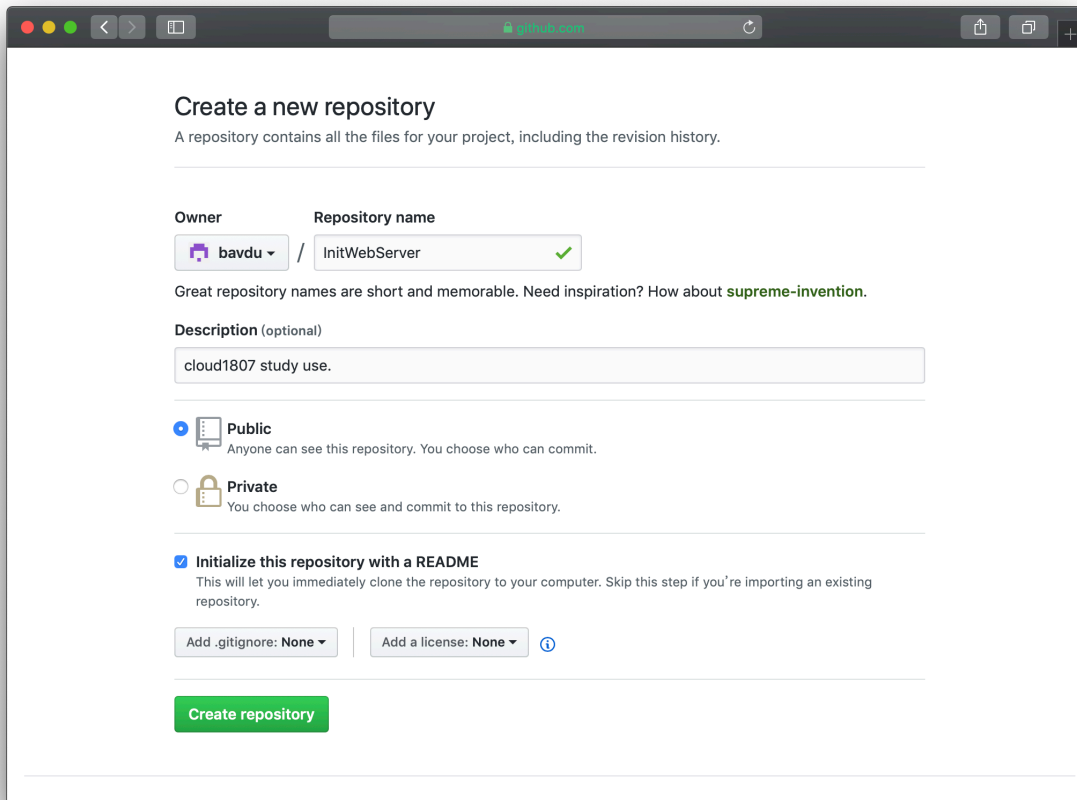
```
[root@git InitWebServer]# git reset --hard f55a9c6
HEAD 现在位于 f55a9c6 modfiy selinux to SELinux
```

```
[root@git InitWebServer]# git log --pretty=oneline
f55a9c661ef05d00b2964d98a62ce6cba789a285 modfiy selinux to SELinux
18853229eff76b911724105831143a8ecfbc5fd0 modfiy upgrade to update
2cc83f785e4f2302158514fe49c10296d8c3fab2 modfiy Prepare to prePare
2c4f4cbe47394117a2fa18825166d804d4215eb9 add distribution
e43d1289b47bc1558e482758d456756ae40a1bc4 add word distribution.
5a96a0cb2acb49a10d9dbf109706689f909ad756 add word distribution.
6fd28a839c545e8450079d403cb62e293332a9ae write a distribution
[root@git InitWebServer]#
```

总结:

- HEAD指向的版本就是当前版本,因此Git允许我们在版本的历史之间穿梭,使用命令:  
`git reset --hard commit\_id`
- 穿梭前,用git log可以查看提交历史,以便确定要回退到哪个版本
- 要重返未来,用git reflog查看命令历史,以便确定要回到未来的哪个版本

## 2. 添加远程库、克隆远程库



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: bavdu / Repository name: InitWebServer ✓

Great repository names are short and memorable. Need inspiration? How about [supreme-invention](#).

Description (optional): cloud1807 study use.

☒ Public  
Anyone can see this repository. You choose who can commit.

☐ Private  
You choose who can see and commit to this repository.

☒ Initialize this repository with a README  
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None | Add a license: None ⓘ

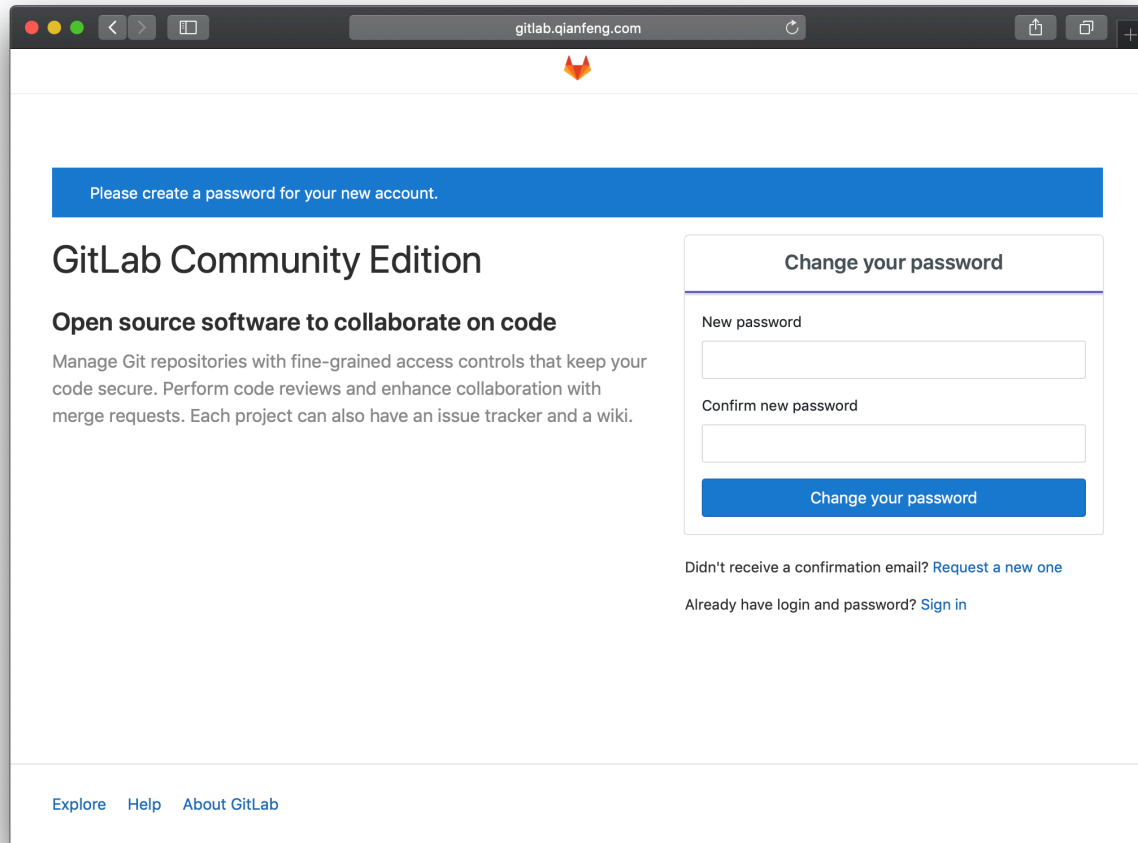
Create repository

```
[root@git ~]# git clone https://github.com/bavdu/InitWebServer.git
[root@git ~]# vim README
[root@git ~]# vim init_webserver.sh
[root@git InitWebServer]# git add .
[root@git InitWebServer]# git commit -m "add README && script"
[master dafd314] add README && script
 2 files changed, 39 insertions(+)
 create mode 100644 README
 create mode 100644 init_webserver.sh
[root@git InitWebServer]# git push -u origin master
Username for 'https://github.com': <你的账号>
Password for 'https://bavdu@github.com': <你的密码>
对象计数中: 4, 完成.
Delta compression using up to 2 threads.
压缩对象中: 100% (4/4), 完成.
写入对象中: 100% (4/4), 889 bytes | 0 bytes/s, 完成.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/bavdu/InitWebServer.git
 40e19d6..dafe314  master -> master
分支 master 设置为跟踪来自 origin 的远程分支 master.
[root@git InitWebServer]#
```

**/\* Gitlab部署 \*/**

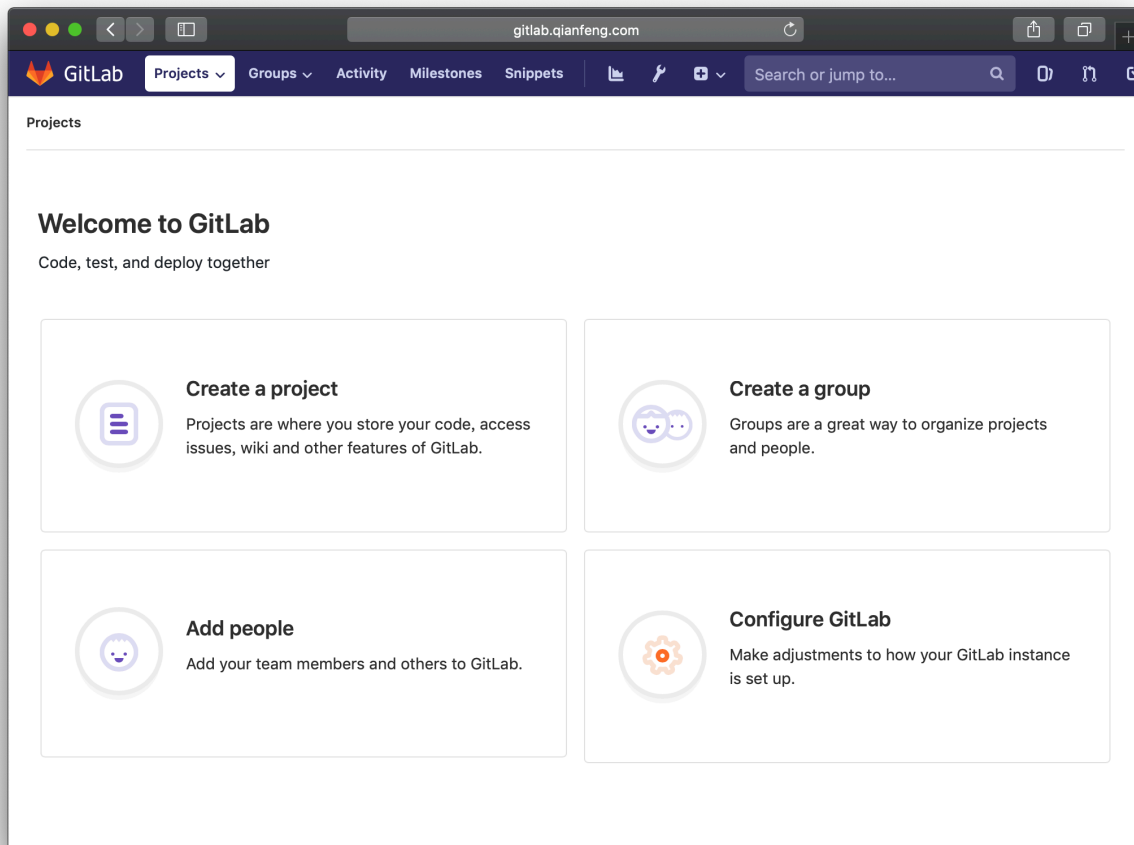
**##部署Gitlab**

```
[root@git ~]# yum -y install policycoreutils-python
[root@git ~]# rpm -ivh https://mirrors.tuna.tsinghua.edu.cn/gitlab-
ce/yum/el7/gitlab-ce-11.4.5-ce.0.el7.x86_64.rpm
[root@git ~]# gitlab-ctl reconfigure
```

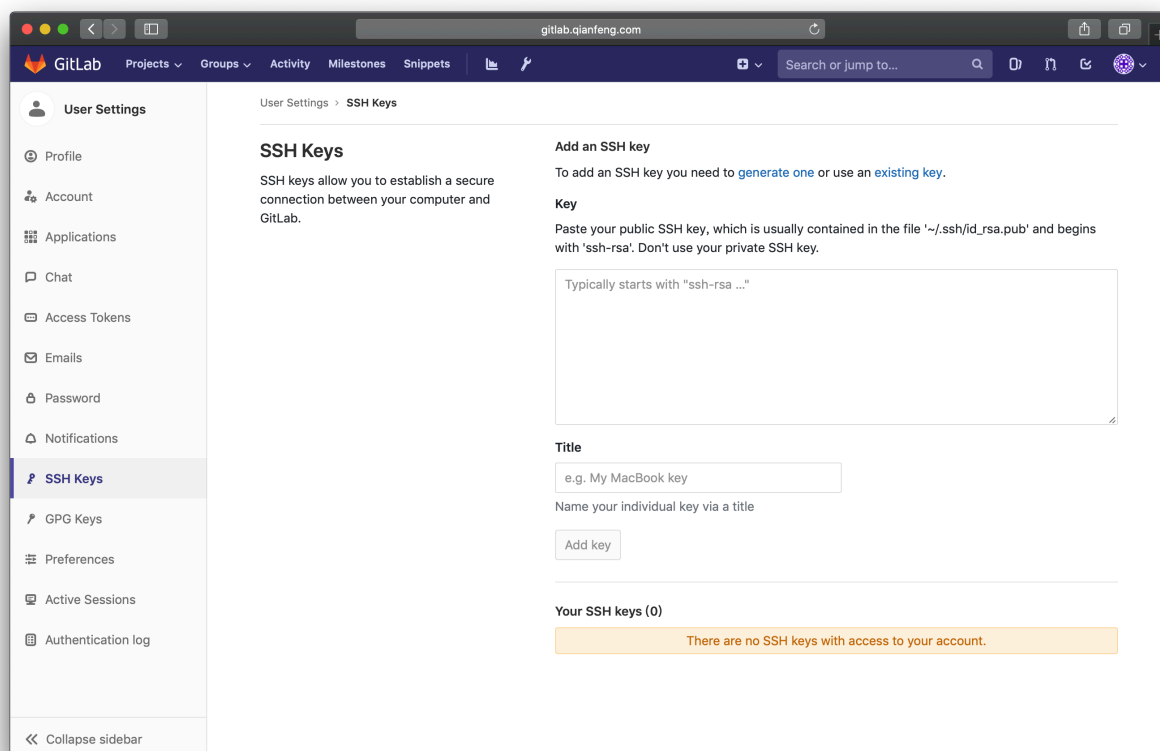


user: root

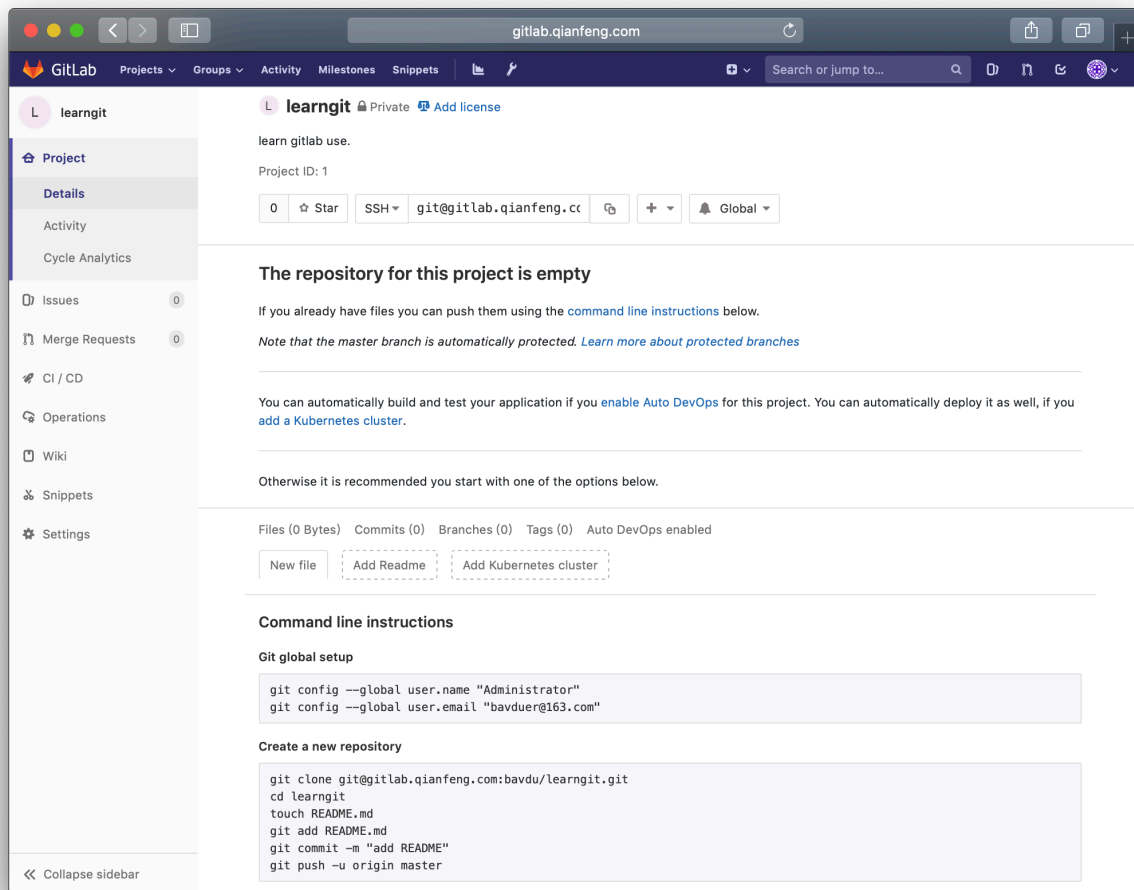
password: <你设定的密码>



构建ssh\_key免密上传



创建git仓库<仓库使用和github一致>



## gitlab的备份操作及备份恢复

### ##备份<设置备份目录及保存天数>

```
[root@gitlab ~]# vim /etc/gitlab/gitlab.rb
gitlab_rails['backup_path'] = "/var/opt/gitlab/backups"
gitlab_rails['backup_keep_time'] = 604800
[root@gitlab ~]# gitlab-rake gitlab:backup:create
```

### ##恢复

```
[root@gitlab ~]# cd /var/opt/gitlab/backups
[root@gitlab backups]# chmod 777
1541872172_2018_11_11_11.4.5_gitlab_backup.tar
[root@gitlab backups]# gitlab-ctl stop unicorn
ok: down: unicorn: 0s, normally up
[root@gitlab backups]# gitlab-ctl stop sidekiq
ok: down: sidekiq: 0s, normally up
[root@gitlab backups]# gitlab-rake gitlab:backup:restore BACKUP=<备份编号>
[root@gitlab backups]# gitlab-ctl reconfigure
```