

【How to】Linux Git 提交空白分支到远程仓库

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开发过程中，需要将本地的某个分支上传到远程仓库，作为一个全新的项目管理，方便他人直接拉取，但本地分支已经具有了很多其他的分支和commit，我们希望上传到仓库的是空白分支，此时应该使用 --orphan 参数来解决，具体操作方法如下：

先切换到你需要空白提交的分支（此处以main分支为例）

```
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git branch
* main
  rezhu_0_1
  rezhu_0_2

rezhu@ubuntu:~/cpe_code/cpe_tree1$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git branch
* main
  rezhu_0_1
  rezhu_0_2
```

随后执行下述命令以创建空白分支

```
git checkout --orphan temp-main
git add
git commit -m "first commit"
```

创建一个空白的远程仓库：

T750-RG500LEU-MT7915-Source-Code

Project overview

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General

Integrations

Webhooks

Access Tokens

Repository

T750-RG500LEU-MT7915-Source-Code

Project ID: 86

1 Commit 1 Branch 0 Tags 3 KiB Project Storage

Quectel_RG500L_T750_Release_SDK

Initial commit

Zhu Mengyuan authored 3 weeks ago

main

t750-rg500leu-mt7915-source-code

History

Find file

Edit

README

Add LICENSE

Add CHANGELOG

Add CONTRIBUTING

Enable Auto DevOps

Add Kubernetes cluster

Set up

Add Wiki

Configure Integrations

Name	Last commit
README.md	Initial commit

README.md

T750-RG500LEU-MT7915-Source-Code

Getting started

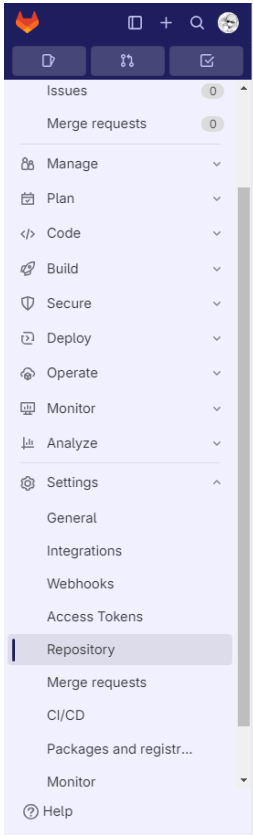
To make it easy for you to get started with GitLab, here's a list of recommended next steps.

Already a pro? Just edit this README.md and make it your own. Want to make it easy? [Use the template at the bottom!](#)

Add your files

192.168.10.16/gitlab/giec_cpe/t750-rg500leu-mt7915-source-code/-/settings/repository

开启强制推送：



GIEC_CPE > T750-RG500LEU-MT7915-Source-Code > Repository Settings

Select the default branch for this project, and configure the template for branch names.

Branch rules

Define rules for who can push, merge, and the required approvals for each branch. [Leave feedback.](#)

Mirroring repositories

Set up your project to automatically push and/or pull changes to/from another repository. Branches, tags, and commits will be synced automatically. [How do I mirror repositories?](#)

Protected branches

Keep stable branches secure and force developers to use merge requests. [What are protected branches?](#)

Protected branches 1

Add protected branch

By default, protected branches restrict who can modify the branch. [Learn more.](#)

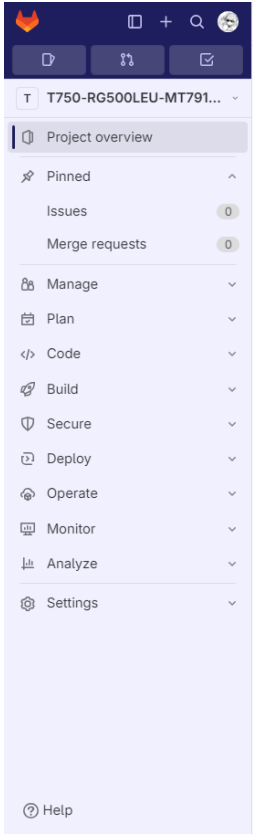
Branch	Allowed to merge	Allowed to push and merge	Allowed to force push
main default	Maintainers 	Maintainers 	

Protected tags

Limit access to creating and updating tags. [What are protected tags?](#)

Deploy tokens

在本地增加远程仓库地址：



GIEC_CPE > T750-RG500LEU-MT7915-Source-Code

Name	Last commit
README.md	Initial commit

README.md

T750-RG500LEU-MT7915-Source-Code

Getting started

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Add your files

☐ Create or upload files

☐ Add files using the command line or push an existing Git repository with the following command:

```
cd existing_repo
git remote add origin http://192.168.10.16:9090/gitlab/giec_cpe/t750-rg500leu-mt7915-source-code.git
git branch -M main
git push -uf origin main
```

Integrate with your tools

☐ Set up project integrations

Collaborate with your team

☐ Invite team members and collaborators

☐ Create a new merge request

☐ Automatically close issues from merge requests

其中的 origin 称呼可以任意修改

```
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git remote add source_code http://192.168.10.16:9090/gitlab/giec_cpe/t750-rg500leu-mt7915-source-code.git
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git log
commit f1d702361120751f60043732ed38868311413227 (HEAD -> temp-main)
Author: zhmy <zhmy@giec.cn>
Date: Wed Aug 7 06:59:15 2024 -0700

    first commit
rezhu@ubuntu:~/cpe_code/cpe_tree1$
```

执行推送：

```
rezhu@ubuntu:~/cpe_code/cpe_tree1$ git push -f source_code temp-main:main
Username for 'http://192.168.10.16:9090': zhumy
Password for 'http://zhumy@192.168.10.16:9090':
Counting objects: 139089, done.
Delta compression using up to 6 threads.
Compressing objects: 100% (107553/107553), done.
Writing objects: 100% (139089/139089), 2.71 GiB | 10.13 MiB/s, done.
Total 139089 (delta 23163), reused 139065 (delta 23154)
remote: Resolving deltas: 100% (23163/23163), done.
To http://192.168.10.16:9090/gitlab/giec_cpe/t750-rg500leu-mt7915-source-code.git
+ 0d500607c3...fid7023611 temp-main -> main (forced update)
rezhu@ubuntu:~/cpe_code/cpe_tree1$
```

可见新仓库为仅有 first commit 的全新 main，其他人拉取代码时，就不会有本地的其他分支和提交了。

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Project ID: 86

1 Commit

1 Branch

0 Tags

2.7 GiB Project Storage

Quectel_RG500L_T750_Release_SDK

first commit

Zhu Mengyuan authored 21 minutes ago

main

t750-rg500leu-mt7915-source-code /

+

History

Find file

Edit

README

Add LICENSE

Add CHANGELOG

Add CONTRIBUTING

Enable Auto DevOps

Add Kubernetes cluster

Add Wiki

Configure Integrations

Name	Last commit
T750	first commit

最后记得删除本地临时创建的 temp-main 分支，并且关闭强制推送。

无标签