

1 怎么给项目增加详细的指导文档？

```
second https://github.com/GitGarden/git_with_travelling.wiki.git (push)
dst63597:moby.wiki suling$ pwd
/Users/suling/003-mygithub/moby.wiki
dst63597:moby.wiki suling$ git remote -v
origin https://github.com/moby/moby.wiki.git (fetch)
origin https://github.com/moby/moby.wiki.git (push)
second https://github.com/GitGarden/git_with_travelling.wiki.git (fetch)
second https://github.com/GitGarden/git_with_travelling.wiki.git (push)
dst63597:moby.wiki suling$ gitk --all
dst63597:moby.wiki suling$ git branch -av
* master 8a3e70a [behind 342] Initial Commit
remotes/origin/HEAD -> origin/master
remotes/origin/master 2e415f4 Updated link for "usual communication channels"
remotes/second/master 8a3e70a Initial Commit
dst63597:moby.wiki suling$ git reset --hard 8a3e70a793f898d85358d6b00f8ffb904a09661d
HEAD is now at 8a3e70a Initial Commit
dst63597:moby.wiki suling$ git push second master
Everything up-to-date
dst63597:moby.wiki suling$ git branch -av
* master 8a3e70a [behind 342] Initial Commit
remotes/origin/HEAD -> origin/master
remotes/origin/master 2e415f4 Updated link for "usual communication channels"
remotes/second/master 8a3e70a Initial Commit
dst63597:moby.wiki suling$ gitk --all
dst63597:moby.wiki suling$ git reset --hard 2e415f4580d5bb2d8a2833fd1eb42c734e53f906
HEAD is now at 2e415f4 Updated link for "usual communication channels"
dst63597:moby.wiki suling$ git push second master
```

2 国内互联网企业为什么喜欢gitlab？

- 1 提供了开源的 社区版本能让公司自己搭建环境省成本
- 2 基于gitlab官网社区版本基于自己的应用场景做二次开发
- 3 版本更新迭代快 加强可用性功能

3 Gitlab有哪些核心的功能？

4 Gitlab上怎么做项目管理？

5 Gitlab上怎么做code review？

- 把分支在设成保护
- github 叫 pull request
- gitlab 叫 merge request

1 Gitlab上怎么保证集成的质量？

- gitlab 的yml
- gitlab的Runners 就是跑CICD的代理

Protected Branches

Keep stable branches secure and force developers to use merge requests.

By default, protected branches are designed to:

- prevent their creation, if not already created, from everybody except Maintainers
- prevent pushes from everybody except Maintainers
- prevent anyone from force pushing to the branch
- prevent anyone from deleting the branch

Read more about protected branches and project permissions.

Protect a branch

Branch: master

Wildcard such as `/-stable` or `/production/*` are supported

Allowed to merge: Maintainers

Allowed to push: No one

Roles

- Maintainers
- Developers + Maintainers
- ☒ No one

Users

- suling
- suling

Protect

Protected branch (0)

maintainers 就是master角色 避免有歧义故改名

2 怎么把应用部署到AWS上？

```
#!/bin/bash

# any future command that fails will exit the script
set -e

# Lets write the public key of our aws instance
eval $(ssh-agent -s)
echo "$PRIVATE_KEY" | tr -d '\r' | ssh-add - > /dev/null

# == Alternative approach
# echo -e "$PRIVATE_KEY" > /root/.ssh/id_rsa
# chmod 600 /root/.ssh/id_rsa
# == End of alternative approach

# disable the host key checking.
./deploy/disableHostKeyChecking.sh

# we have already setup the DEPLOYER_SERVER in our gitlab settings which is a
# comma separated values of ip addresses.
DEPLOY_SERVERS=$DEPLOY_SERVERS

# lets split this string and convert this into array
# In UNIX, we can use this command to do this
# ${string//substring/replacement}
# our substring is "," and we replace it with nothing.
ALL_SERVERS=(${DEPLOY_SERVERS//,/ })
echo "ALL_SERVERS ${ALL_SERVERS}"

# Lets iterate over this array and ssh into each EC2 instance
# Once inside.
# 1. Stop the server
# 2. Take a pull
# 3. Start the server
for server in "${ALL_SERVERS[@]}"
do
    echo "deploying to ${server}"
    ssh -o2 -oUserKnownHostsAccepted -oStrictHostKeyChecking=no -i /root/.ssh/id_rsa root@${server} "
        # 1. Stop the server
        # 2. Take a pull
        # 3. Start the server
        git pull
        ./deploy/startServer.sh
    done
```

AWS 配置的变量

GitLab Projects Groups Activity Milestones Snippets

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Projects

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suling > ci_cd_demo > CI/CD Settings

General pipelines

Customize your pipeline configuration, view your pipeline status and coverage report.

Auto DevOps

Auto DevOps will automatically build, test, and deploy your application based on a predefined Continuous Integration and Delivery configuration. Learn more about Auto DevOps

Protected Environments

Protect Environments in order to restrict who can execute deployments.

Runners

Register and see your runners for this project.

Variables

Variables are applied to environments via the runner. They can be protected by only exposing them to protected branches or tags. You can use variables for passwords, secret keys, or whatever you want.

DEPLOY_SERVERS	*****	Protected	<input checked="" type="checkbox"/>	All environments
PRIVATE_KEY	*****	Protected	<input checked="" type="checkbox"/>	All environments
Input variable key	Input variable value	Protected	<input type="checkbox"/>	All environments

Save variables Reveal values