

Remote repository

Git repository ?????????????? repository ?????? GitHub?Gitlab?Bitbucket??????? Git Server?

?????????Remote repository ??????????????????????????

Git Repository Providers

- [Codeberg](#) - ??????????????
- [GitLab](#)

Clone from remote repo.

```
# Specified version
git clone -b 8.3.0 https://github.com/OpenSIPS/opensips-cp.git /var/www/opensips-cp
```

Git remote

??

- branch (??)??? local ? remote?? remote branch ??? origin ???
- `git remote show` ?????????????????? `git remote update` ?????????????????? branch ?
commit ??????? `git fetch` ???

```
# Show the configuration of the remote repository
git remote -v

origin https://github.com/a-lang/sshto.git (fetch)
origin https://github.com/a-lang/sshto.git (push)

# Get more information
git remote show origin

* origin
  https://github.com/a-lang/sshto.git
  https://github.com/a-lang/sshto.git
  HEAD master
```



```
cd my_proj
git pull
```

Pull vs. Fetch

- Pull: `git pull` branch
- Fetch: `git fetch` branch

????????

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```
git config --global credential.helper cache
```

SSH Key Authentication

```
# ssh-keygen
# ssh-keygen: ~/.ssh/id_rsa (private key) , ~/.ssh/id_rsa.pub (public-key)
ssh-keygen -t rsa -b 4096 -C "alang@my-linux-desktop"
ssh-keygen -t ed25519 -C "alang@my-linux-desktop"

# Gitlab ssh-keygen public ssh-key
# ssh-keygen ssh key authentication
# ssh-keygen Welcome to GitLab, @alang! ssh-keygen
ssh -T git@gitlab.shurafom.eu

# ssh-keygen
# NOTE: ssh-keygen git@XXX.xxx.xxx ssh-keygen
# ssh-keygen https:// ssh-keygen Personal Token ssh-keygen
git clone git@gitlab.shurafom.eu:myproject/myprog.git
```

GitHub: For specified Repo

[YOUR-REPO] ? Settings ? Security ? Deploy keys ? Add deploy key

- Title : ??
- Key : SSH ??

Linux ???

- `ssh-keygen -t rsa -C "your_email@example.com" -f ~/.ssh/id_rsa`
- `ssh-add ~/.ssh/id_yourcustomname` ??? `ssh-agent`

```
# Testing SSH connection
ssh -T git@github.com
```

~/.ssh/config

```
Host github-project1
  User git
  HostName github.com
  IdentityFile ~/.ssh/github.project1.key
```

Usage

```
git clone git@github-project1:orgname/some_repository.git
```

Fetch

Git `git fetch` branches ?? (commit)
 branches ??? `git pull` ???

1. ????

```
git remote show origin
```

```
* remote origin
  Fetch URL: https://github.com/redquinoa/health-checks.git
  Push URL: https://github.com/redquinoa/health-checks.git
  HEAD branch: master
  Remote branch:
    master tracked
  Local branch configured for 'git pull':
    master merges with remote master
  Local ref configured for 'git push':
    master pushes to master (local out of date)
```

?? *master pushes to master (local out of date)* ????

2. ????

- ?? branch: origin/master
- ?? branch: master
- ??? branch log ??? HEAD -> master ? origin/master ??????????????????????

```
# 0000 branches 00000 local
git fetch

# 0000 branch 0 commit log 00000
git branch -r          # List all remote branches
git log origin/master # Check the log for the remote branch origin/master

commit b62dc2eacfa820cd9a762adab9213305d1c8d344 (origin/master, origin/HEAD)
Author: Blue Kale <bluekale@example.com>
Date:   Mon Jan 6 14:32:45 2020 -0800
    Add initial files for the checks
commit 807cb5037ccac5512ba583e782c35f4e114f8599 (HEAD -> master)
Author: My name <me@example.com>
Date:   Mon Jan 6 14:09:41 2020 -800
    Add one more line to README.md
commit 3d9f86c50b8651d41adabdaebd04530f4694efb5
Author: Red Quinoa <55592533+redquinoa@users.noreply.github.com>
Date:   Sat Sep 21 14:04:15 2019 -0700
    Initial commit
```

3. ??? branch ?????? branch??????

- git status : ?????? branch ??? branch ??????

```
# 0000
git status

On branch master
Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.
    (use "git pull" to update your local branch)
nothing to commit, working tree clean

# 0000 branch 000 branch
git merge origin/master

Updating 807cb50..b62dc2e
```

Fast-forward

```
all_checks.py | 18 ++++++
disk_usage.py | 24 ++++++
2 files changed, 42 insertions(+)
create mode 100755 all_checks.py
create mode 100644 disk_usage.py
```

????????????????

```
# 查看远程仓库
git remote show origin

# 检出远程分支
git checkout <remote-branch-name>

# 查看分支
git branch
```

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