

Remote repository

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

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

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
```

```
master
```

```
'git pull' 
```

```
master master
```

```
'git push' 
```

```
master [ ] master ([ ])
```

```
# Update the contents of remote branch  
git remote update
```

Remote branches

?????? branch (??) ??

```
# Way 1  
git branch -r  
  
# Way 2  
git remote show origin
```

Push

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

```
# [ ] refactor  
git push origin refactor  
git push -u origin refactor # [ ] refactor  
  
# [ ] refactor  
git push --delete origin refactor  
  
# [ ]  
# [ ] commit [ ] pull request [ ]  
git push -f
```

Pull

???????????????????? branch ??????

```
cd my_proj  
git pull
```

Pull vs. Fetch

- Pull: ?????????????????? branch
- Fetch: ?????????????????? branch

???????????? 15 ??

SSH Key Authentication

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

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

# [ ]
# NOTE: [ ] git@XXX.xxx.xxx [ ]
# [ ] https:// [ ] Personal Token [ ]
git clone git@gitlab.shurafom.eu:myproject/myprog.git
```

Fetch

[illegible]

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master pushes to master (local out of date)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 master pushes to master (local out of date) ????????????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. ????? branches ????????

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

```
# [ ] [ ] branches [ ] [ ] local
git fetch

# [ ] [ ] branch [ ] commit log [ ] [ ]
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 ??????

```
# [ ] [ ]
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

```
# [ ] [ ] [ ] branch [ ] [ ] 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
```

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

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ]
git remote show origin

# [ ] [ ] [ ] [ ] [ ]
git checkout <remote-branch-name>

# [ ] [ ] [ ] [ ] [ ]
git branch
```