

NEUOJ Installation Guide

Local Installation (With XAMPP for Linux 5.6.*)

Clone NEUOJ and set Remote Correctly

1. **Fork** from Lbyang/NEUOJ on gitlab
2. Clone the repo to your local workspace
`git clone http://219.216.96.46/path/to/your/NEUOJ.git`
3. `cd` to NEUOJ repo then add master stream to your remote (named gitlab for example)
`git remote add gitlab http://219.216.96.46/Lbyang/NEUOJ.git`
4. Use `git remote -v` and make sure you have these lines output

```
gitlab http://219.216.96.46/Lbyang/NEUOJ.git (fetch)
gitlab http://219.216.96.46/Lbyang/NEUOJ.git (push)
origin https://github.com/VOID001/NEUOJ.git (fetch)
origin https://github.com/VOID001/NEUOJ.git (push)
```

p.s: origin addr is where you clone NEUOJ from, Not what displayed above

5. When you make a new commit, remember to push it to **origin** instead of **master**, **YOU CANNOT PUSH TO MASTER REMEMBER!!**
6. And be sure to run `git fetch gitlab master; git rebase FETCH_HEAD` to update your repo to the newest version before you change the code
7. Each time when you see a Commit Notification on Bearychat, You should do [6] to update your repo
8. How to create a merge request will not mention in this document, Please read the document of gitlab or refer to the tutorial on gitlab on how to create a merge request

Install XAMPP and Configure the database

1. Get the correct version and platform(x86_64 or x86) XAMPP on <https://www.apachefriends.org>
2. Give XAMPP Installer permission to execute with the following command
`chmod +x /path/to/your/xampp_installer.run`
3. Run XAMPP Installer with Superuser permission
`sudo /path/to/your/xampp_installer.run`

4. After install XAMPP, Boot it up by

```
sudo /opt/lampp/xampp start
```

If you fail on starting apache or mysql , please make sure there is no other httpd or mysql running

5. Then Create a User named `neuoj` from PHPMyadmin(You can visit phpmyadmin by visiting <http://localhost/phpmyadmin>) Detailed Step is described below

1. Click "Users" Then Click "Add user"
2. Input `neuoj` in `username` `localhost` in `host` then set a password (e.g `neuoj_pass`)
3. Then Check `Create a database has the same name as the user and grant all access`
4. Then execute the command

6. When finished you should see a database named neuoj and empty

Install and Configure Redis

1. Redis Installation is quite straight forward
2. Install redis from the package manager in your linux distro(for example ArchLinux `sudo pacman -S redis`)
3. Then start the redis service, default it will listen on 127.0.0.1:6379
4. Try command `redis-cli` to check if redis service is running
See this `Could not connect to Redis at 127.0.0.1:6379: Connection refused` means not running
5. Redis basic configuration Done, For advanced configuration please refer to redis document

Install SIM Check Module

1. cd to NEUOJ repo
2. Fetch the submodule from gitlab

```
git submodule init  
git submodule update
```

You should see following output

```
Cloning into 'sim'...  
remote: Counting objects: 266, done.  
remote: Compressing objects: 100% (99/99), done.
```

```
remote: Total 266 (delta 160), reused 266 (delta 160)
Receiving objects: 100% (266/266), 271.08 KiB | 0 bytes/s, done.
Resolving deltas: 100% (160/160), done.
Checking connectivity... done.
Submodule path 'sim': checked out '08a004b77a4796115b5d5ae6ac9cab49679c06
1e'
```

3. cd to sim directory
4. Run `make binaries` be sure you have gnu build utils, better if support C++11
5. Run `make test` to test the SIM module
6. Now you should see sim_c, sim_lisp, etc in your sim directory
7. Remeber if your code contains too few token(maybe <20 is too few), SIM Module cannot give any result

Install and Configure Domjudge

[Pending] Please refer to domjudge document

Install NEUOJ Composer Dependencies

Before start this process, please add this line in your shellrc file(.zshrc or .bashrc)
Then update your environment

```
alias phpx=/opt/lampp/bin/php
```

1. Run `phpx composer.phar self-update`
2. Run `phpx composer.phar install -vvv`

If errors like "Cannot find vendor/autoload.php" Breaks the installation process,
Please follow the following step

1. Open composer.json file
2. Remove "php artisan clear-compiled" in "post-install-cmd" and "pre-update-cmd"
3. Then re-run the install command

Set up NEUOJ Environment

1. Open .env file and set

```
DB_HOST to localhost
DB_DATABASE to neuoj
DB_USERNAME to neuoj
DB_PASSWORD to passowrd you set
CACHE_DRIVER to redis
```

default redis configuration is okay for most case, if not please configure

`REDIS_HSOT` and `REDIS_PORT`

and be sure to set correct judge configuration

`JUDGE_USER` to judge name you configure in `restapi.secret`

`JUDGE_PW` to judge password you configure in `restapi.secret`

2. Run `php artisan key:generate` to generate application key for NEUOJ
3. Run `php artisan migrate` to create tables for NEUOJ
4. Run `php artisan db:seed` to seed data into database
5. Then run `php artisan serve` and visit `http:localhost:8000/` you will see NEUOJ
6. **Be sure to run `php artisan migrate:refresh` when a commit modify a table**

Bots in bearychat

*NEUOJ Development communication is held on Bearychat
neugeek.bearychat.com #NEUOJ_accelercode ,Everyone should learn how
to use bearychat and skillful on using bearychat to communicate*

1. 友利奈緒(Tomori Nao) is a bot to broadcast NEUOJ master repo update event, When you see this bot said something, please update your NEUOJ repo
2. 夏娜酱 NEUOJ-Bug-Bot is a bot to broadcast github issuses from NEUOJ-Bug-report repo, When this bot appeared, please check the Github Issues to see if there is bug you need to fix ~
3. 桐谷和人Kirito(NEUOJMergeRequestBot) is a bot to broadcast Merge Requests made by developers, NEUOJ Project master should check gitlab when this bot appears, and when a MR is rejected The bot will pop out too~, so if developers see the bot said a rejected MR created by you, check the Merge request page for more info about why rejected
4. 椎名真白Hoshina Mashiro(DroneCI Bot) is a bot to broadcast the test status from <http://202.118.31.226:3322> DroneCI Service, for each MR or master repo update, it will broadcast a build result, When unexpected failure reported, please double check your code

P.S: In order to ensure developers can recognize the bots, Avatars will be given below =w=

| Name | Pic | - Name - | pic |
|------|-----|----------|-----|
| | | | |

TomoriNao



桐谷和人



夏娜酱



椎名真白



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NEUOJ Developer Configuration Document by VOID001