

getting_set_up

April 26, 2023

0.1 Setting up development environment

```
[2]: git log workspace --oneline
```

```
d4e0149 (HEAD -> workspace)
[workspace] install basic tools needed for packaging management
5c48c38 [workspace] switch docker image to jupyter, to capture issues
and tasks
79ce999 [workspace] setup docker container environment, based on ubuntu
22.04
6997708 (main) Initial commit
```

```
[5]: git checkout main
git merge workspace --commit -m '[merge][workspace] setup development_
↳environment'
```

```
Already on 'main'
Updating 6997708..d4e0149
Fast-forward (no commit created; -m option ignored)
 .devcontainer/Dockerfile          | 35 ++++++
 .devcontainer/devcontainer.json   | 42
 ++++++
 2 files changed, 77 insertions(+)
 create mode 100644 .devcontainer/Dockerfile
 create mode 100644 .devcontainer/devcontainer.json
```

0.2 Create GPG key

```
[11]: gpg --batch --gen-key <<EOF
Key-Type: 1
Key-Length: 4096
Subkey-Type: 1
Subkey-Length: 4096
Name-Real: Clymber Loong
Name-Email: clymberloong@icloud.com
Expire-Date: 0
EOF
```

```
gpg --list-keys
```

```
gpg: key 4518FD6F6008D599 marked as ultimately trusted
gpg: revocation certificate stored as '/home/clymber/.gnupg/openpgp-
revocs.d/B8984F7A8A348CCAF57E4C114518FD6F6008D599.rev'
gpg: checking the trustdb
gpg: marginals needed: 3 completes needed: 1 trust model: pgp
gpg: depth: 0 valid: 1 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 1u
/home/clymber/.gnupg/pubring.kbx
-----
pub   rsa4096 2023-04-23 [SCEA]
      B8984F7A8A348CCAF57E4C114518FD6F6008D599
uid           [ultimate] Clymber Loong <clymberloong@icloud.com>
sub   rsa4096 2023-04-23 [SEA]
```

```
[12]: gpg --keyserver keyserver.ubuntu.com --send-keys 6008D599
```

```
gpg: sending key 4518FD6F6008D599 to hkp://keyserver.ubuntu.com
```

0.3 Create SSH key

```
[13]: ssh-keygen -b 4096 -t rsa -f ~/.ssh/clymberloong_id -q -N ""
```

```
[15]: ls -l ~/.ssh/clymberloong_id*
```

```
/home/clymber/.ssh/clymberloong_id
/home/clymber/.ssh/clymberloong_id.pub
```

0.4 Configure shell environment

```
[17]: echo >> ~/.bashrc 'export DEBFULLNAME="Clymber Loong"
export DEBEMAIL="clymberloong@icloud.com"'
```

```
[19]: tail -n 2 ~/.bashrc
```

```
export DEBFULLNAME="Clymber Loong"
export DEBEMAIL="clymberloong@icloud.com"
```