Lab 4:

Install docker Desktop:

Mac OS: brew install --cask docker

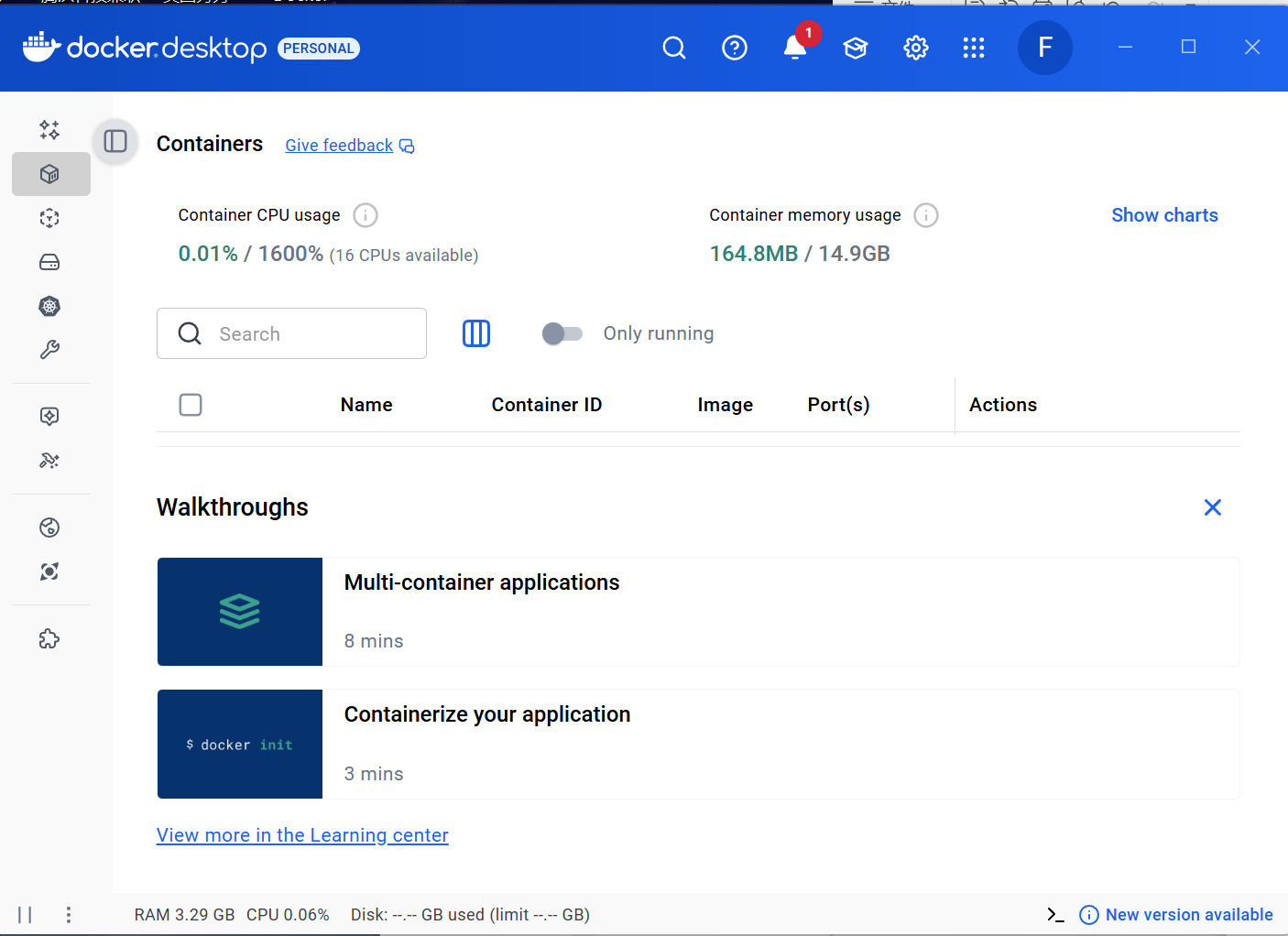
To install brew, please download brew.pkg here: www.futurelei.com/assets/Homebrew.pkg

Windows:

Open terminal, and run: wsl --install

Download Docker Desktop and install it.

You have to register it before use.



Install gitea using docker on your computer.

https://about.gitea.com/

https://docs.gitea.com/installation/install-with-docker

a. Does it support LFS? prove it.

b. Create a repo with a large file (1G+)

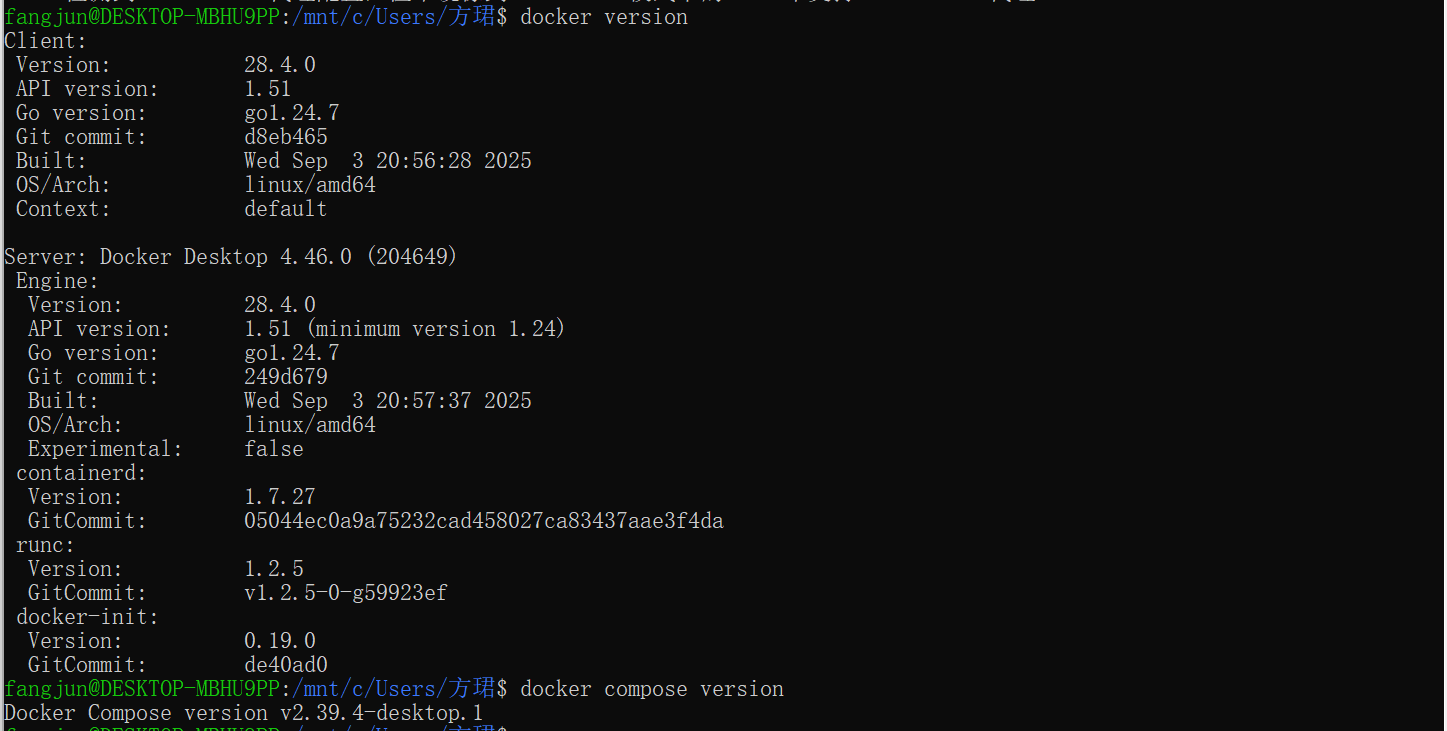
c. Create a repo for this module and commit your work to this repo.

d. [optional] Backup all data to an external harddrive/USB stick and restore it from another computer.

Install Gitea without docker, feel free to choose the database.

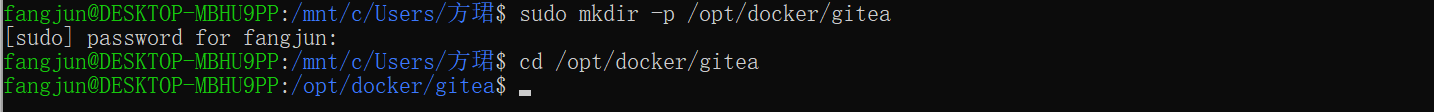
Step1：

Environment Preparation：



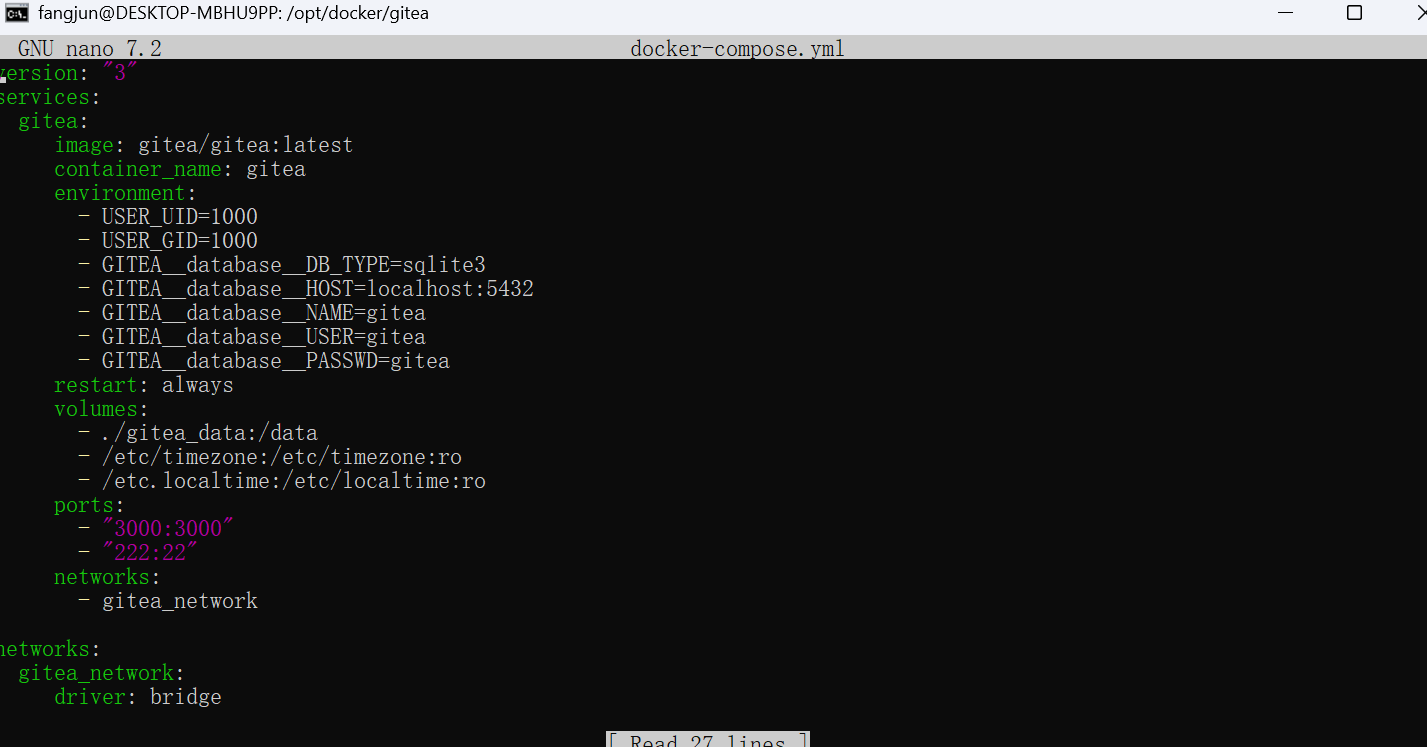
Step 2:

Create project directory structure：

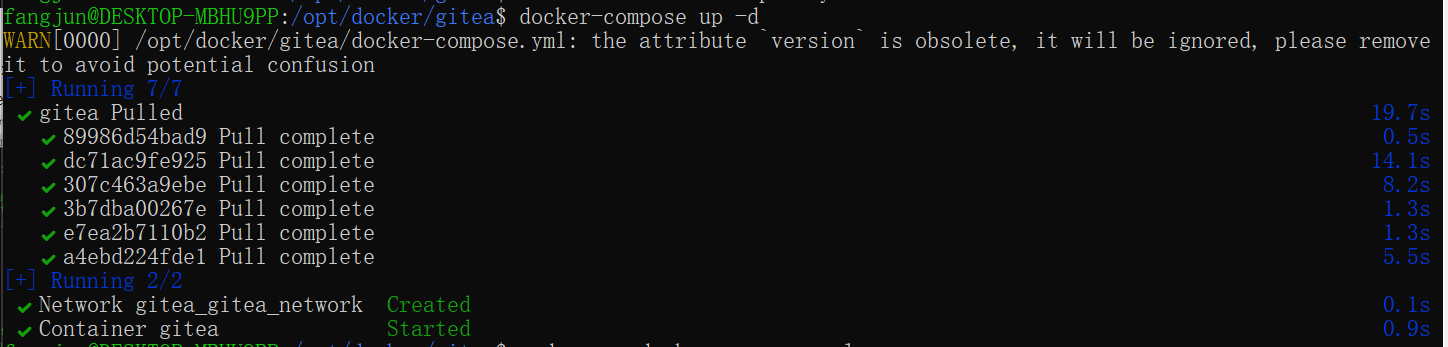


Step 3:

Create file docker-compose.yml:



Step 4:Start Gitea Container



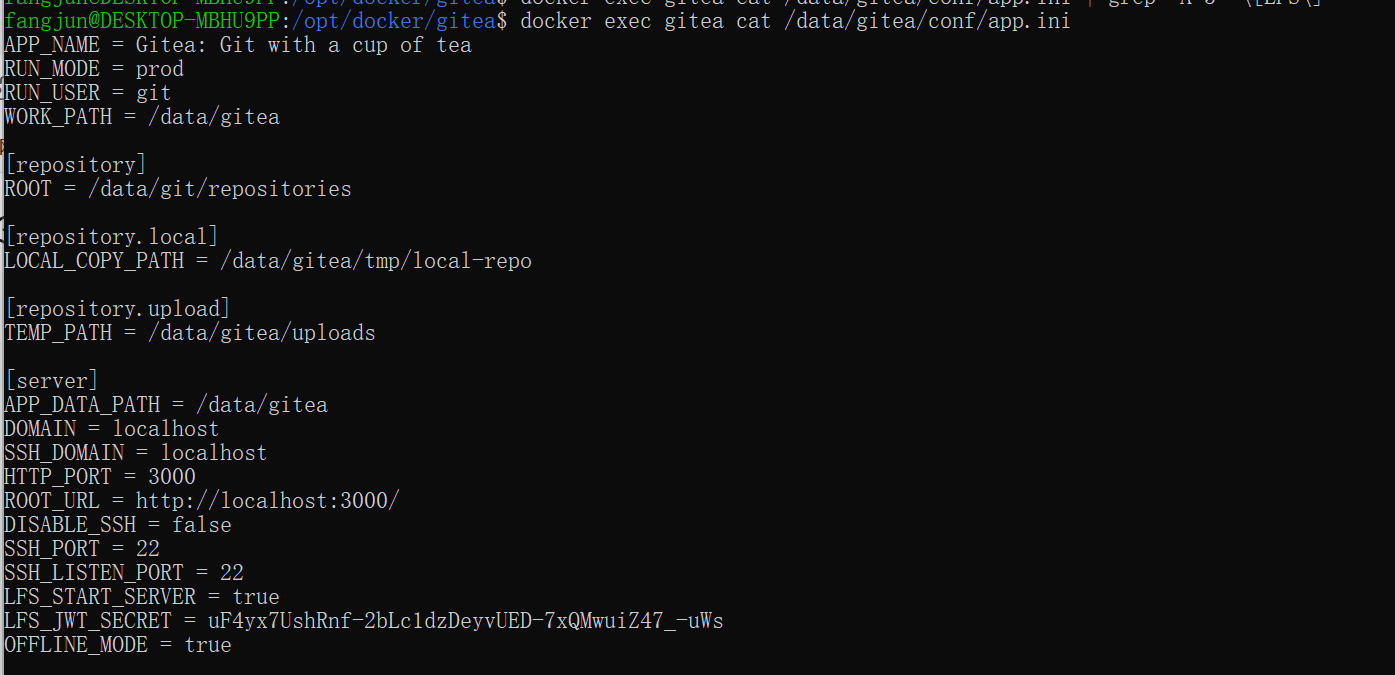
Step 5:Initial Gitea Setup Accessed <http://localhost:3000>



1. Does it support LFS? prove it.

LFS\_START\_SERVER = true

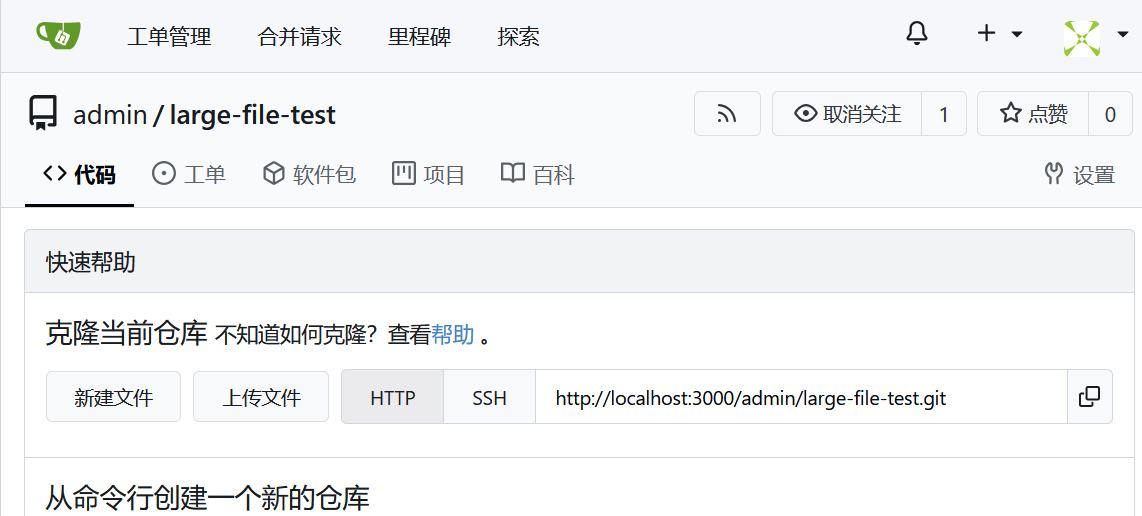
LFS\_JWT\_SECRET = uF4yx7UshRnf-2bLc1dzDeyvUED-7xQMwuiZ47\_-uWs



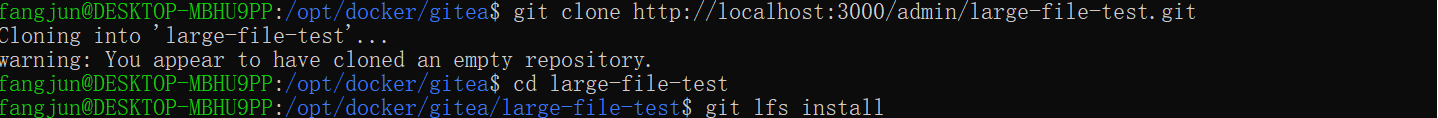
1. Create a repo with a large file (1G+)

Create New Repository: <http://localhost:3000/admin/large-file-test.git>

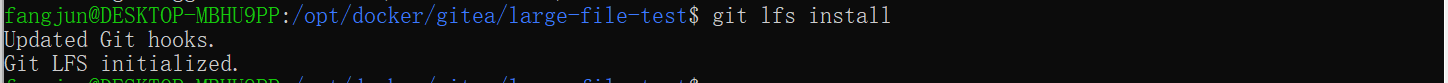




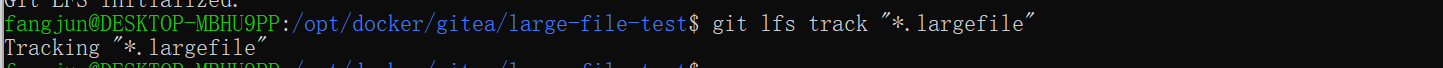
git clone http://localhost:3000/admin/large-file-test.git



# Initialize Git LFS



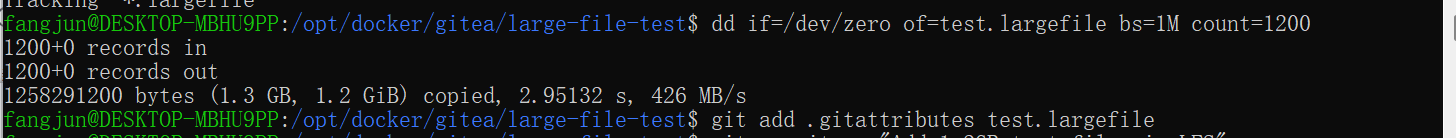
# Track large files



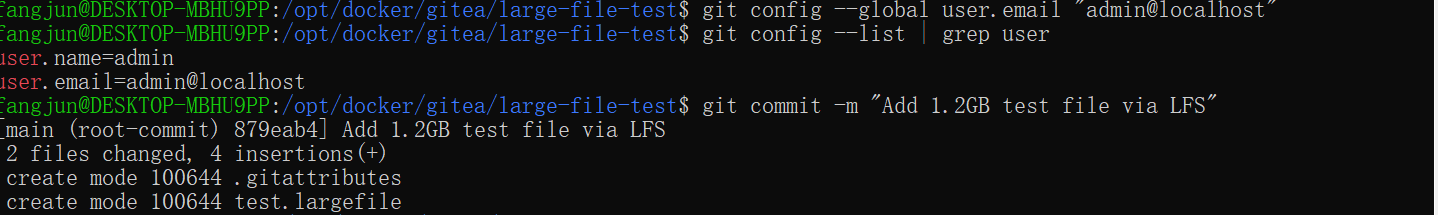
# Create and add 1GB+ test file

dd if=/dev/zero of=test.largefile bs=1M count=1200

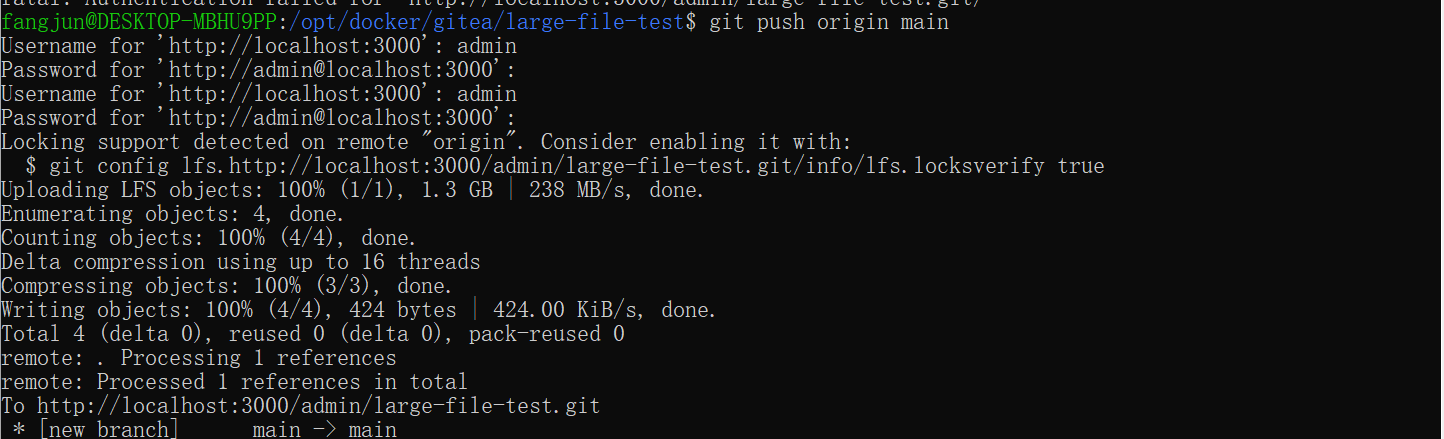
git add .gitattributes test.largefile

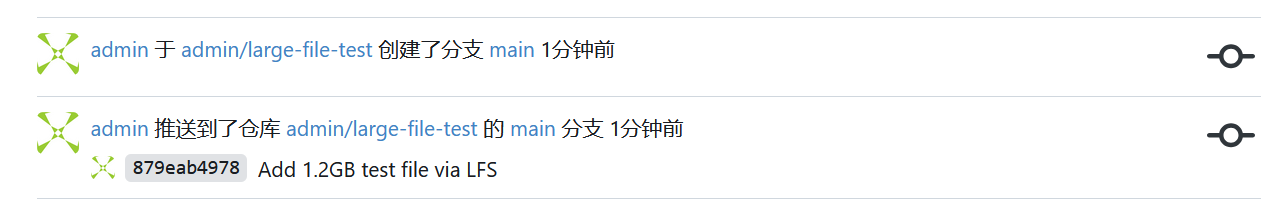


git commit -m "Add 1.2GB test file via LFS"



git push origin main

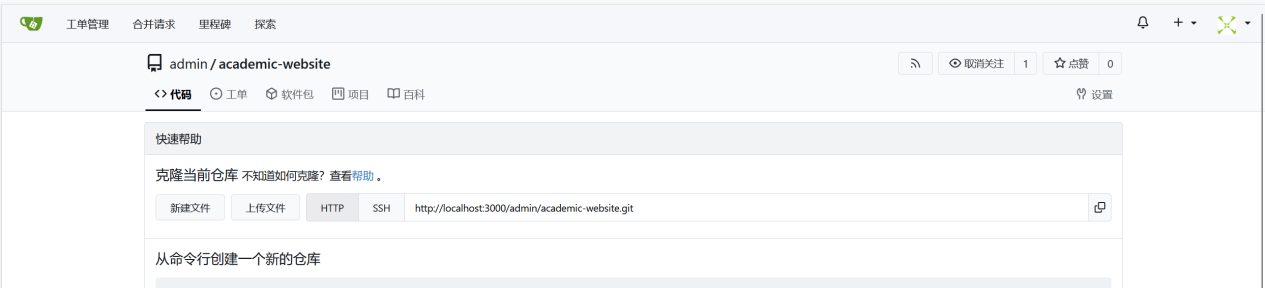




1. Create a repo for this module and commit your work to this repo.

Step 1: Create New Repository: academic-website

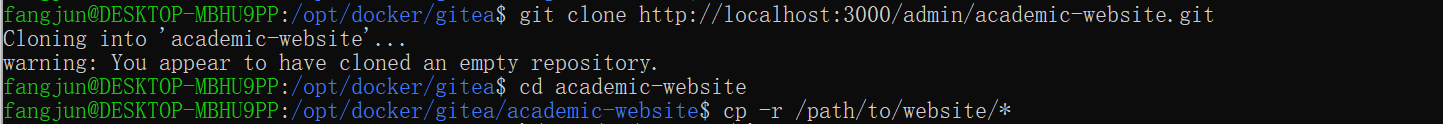
Description: "Personal academic website project"



Step 2: Add Website Files

git clone http://localhost:3000/admin/academic-website.git

cd academic-website



# Copy all website files to repository

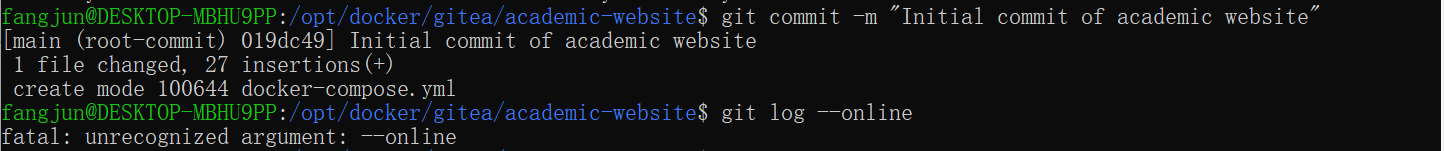
cp -r /path/to/website/\* .

# Initial commit

git add .

git commit -m "Initial commit: Academic website with al-folio theme"

git push origin main



<http://localhost:3000/admin/academic-website/commits/commit/1bfe053857c98e839d8173de46c94e9a55ad4f5e>

1. [optional] Backup all data to an external harddrive/USB stick and restore it from another computer.

**Install Dependencies**

# Ubuntu/Debian

sudo apt update

sudo apt install git sqlite3

**Download and Install Gitea Binary**

wget -O gitea https://dl.gitea.com/gitea/1.21.0/gitea-1.21.0-linux-amd64

chmod +x gitea

sudo mv gitea /usr/local/bin/

**Create System User**

sudo adduser --system --group --disabled-password --shell /bin/bash --home /home/git --gecos 'Git Version Control' git

**Create Configuration Directory**

sudo mkdir -p /etc/gitea

sudo chown root:git /etc/gitea

sudo chmod 770 /etc/gitea