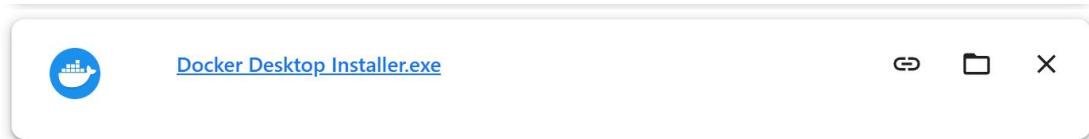
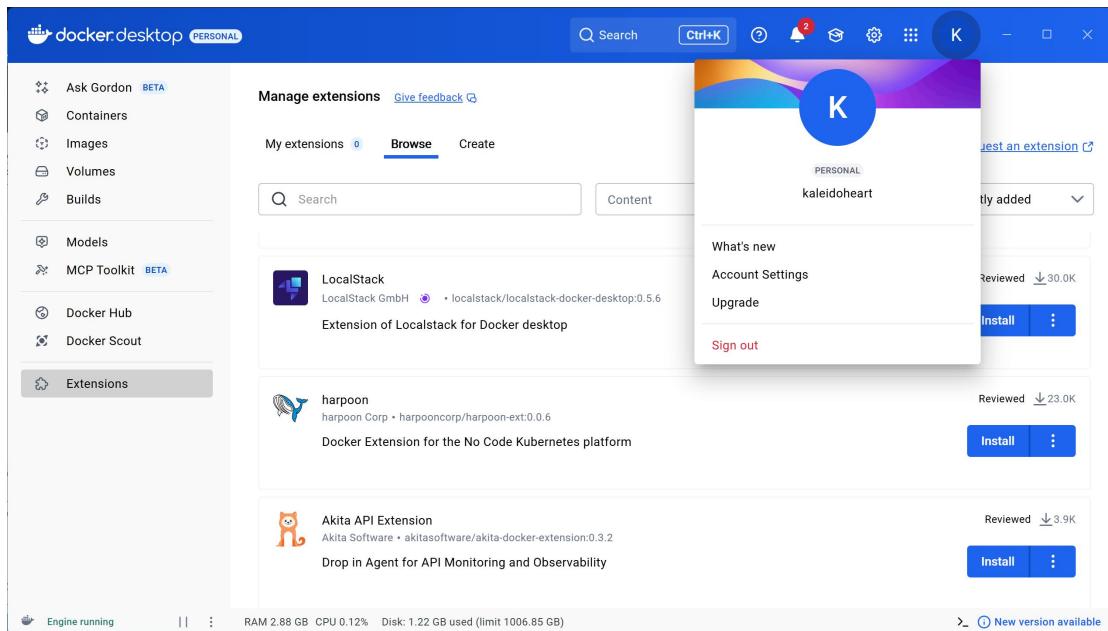


Lab4

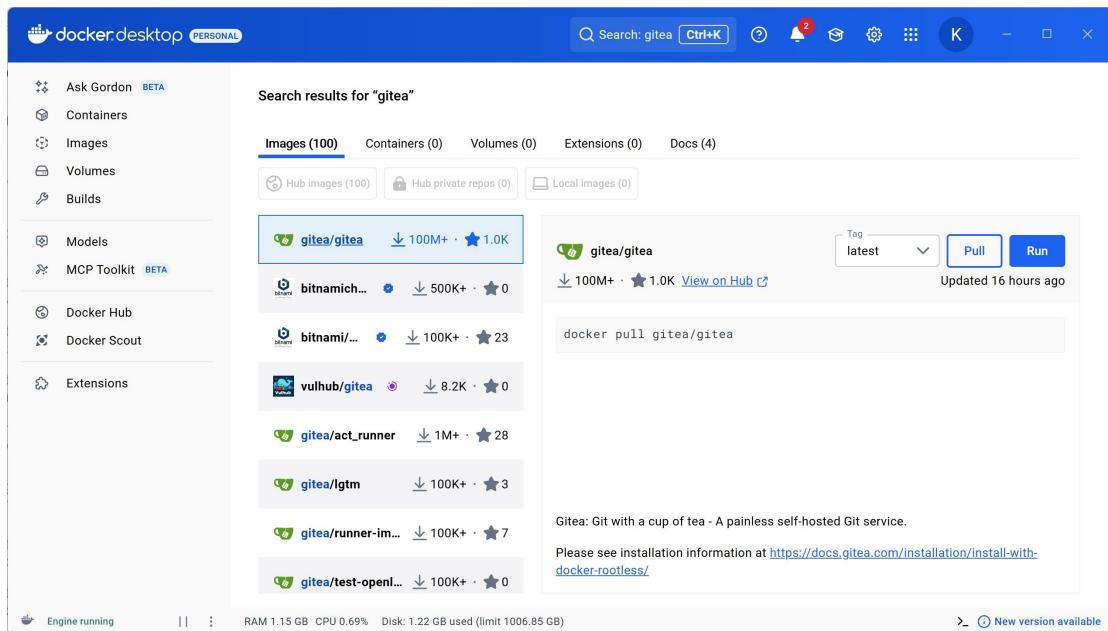
1. Install docker desktop.



2. Sign in docker desktop.



3. Pull gitea image.



4. Create docker-compose.yml



- Start up docker compose in terminal.

```
PS C:\study\云计算导论\docker\gitea> docker-compose up -d
[+] Running 1/1
  ✓ server Pulled
[+] Running 2/2
  ✓ Network gitea_gitea   Created
  ✓ Container gitea        Started
PS C:\study\云计算导论\docker\gitea>
```

- Use ps to check.

```
PS C:\study\云计算导论\docker\gitea> docker-compose ps
NAME      IMAGE           COMMAND            SERVICE    CREATED         STATUS          PORTS
gitea     docker.gitea.com/gitea:1.24.6 "/usr/bin/entrypoint..." server    2 minutes ago  Up 2 minutes  0.0.0.0:3000
                                                 =>3000/tcp, [::]:3000=>3000/tcp, 0.0.0.0:22->22/tcp, [::]:22->22/tcp
```

- Get to port 3000 to configure gitea.

The screenshot shows a web-based configuration interface for Gitea. It has two main sections: '初始配置' (Initial Configuration) and '一般设置' (General Settings).

初始配置

如果您正在使用 Docker 容器运行 Gitea，请务必先仔细阅读 [官方文档](#) 后再对本页面进行填写。

数据库设置

Gitea 需要使用 MySQL、PostgreSQL、MSSQL、SQLite3 或 TiDB (MySQL协议) 等数据库

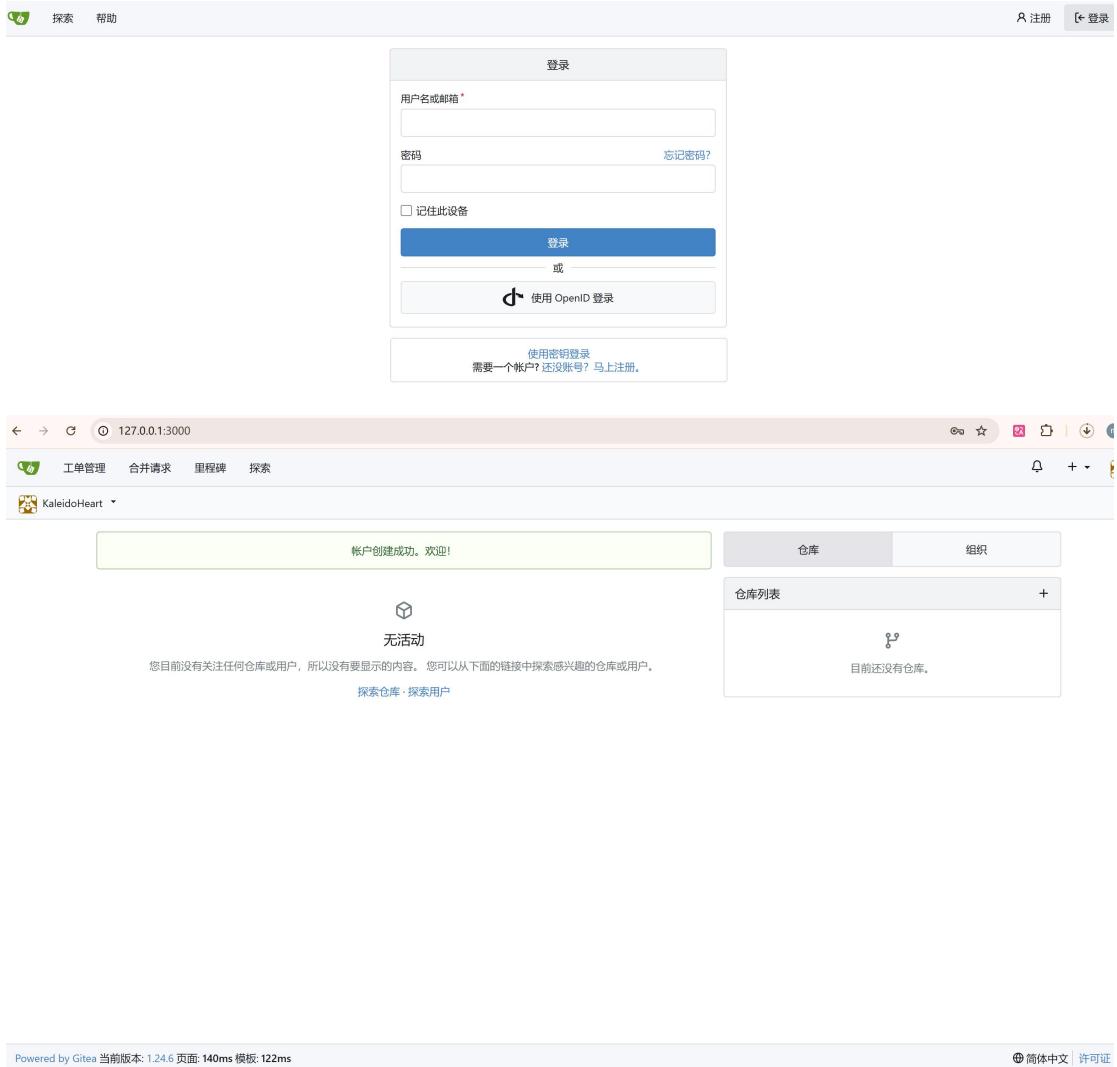
数据库类型 *	SQLite3
数据库文件路径 *	/data/gitea/gitea.db

SQLite3 数据库的文件路径。
如果以服务的方式运行 Gitea，请输入绝对路径。

一般设置

站点名称 *	Gitea: Git with a cup of tea
仓库根目录 *	/data/git/repositories
LFS根目录	/data/git/lfs
以用户名运行 *	git
服务器域名 *	127.0.0.1
SSH 服务端口	22

- Sign in. Set up successfully.



A.B.

1. Create a repo

This screenshot shows the process of creating a new repository. At the top, it says 'KaleidoHeart / Repo-with-big-file'. Below that are tabs for '代码' (Code), '工单' (Tickets), '软件包' (Software Packages), '项目' (Projects), and '百科' (Encyclopedia). There are buttons for '取消关注' (Unfollow) and '点赞' (Like). A '设置' (Settings) link is also present.

The main area is titled '快速帮助' (Quick Help) and includes instructions for cloning the repository. It provides links for '新建文件' (New File), '上传文件' (Upload File), 'HTTP', 'SSH', and the repository URL 'http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git'.

Below this is a section titled '从命令行创建一个新的仓库' (Create a new repository from the command line) with the following command:

```
touch README.md  
git init  
git checkout -b main  
git add README.md  
git commit -m "first commit"  
git remote add origin http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git  
git push -u origin main
```

At the bottom, another section titled '从命令行推送已经创建的仓库' (Push an already created repository from the command line) contains the command:

```
git remote add origin http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git  
git push -u origin main
```

S

2. Prepare for a 1.5GB big file.

1.5GB-test-file.zip	2025/9/17 9:09	ZIP 压缩文件	1,578,073 KB
---------------------	----------------	----------	--------------

3. Use git to upload the file to repo.

```
PS C:\study\云计算导论\test files> git init
Initialized empty Git repository in C:/study/云计算导论/test files/.git/
PS C:\study\云计算导论\test files> git remote add origin http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git
PS C:\study\云计算导论\test files> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git'
PS C:\study\云计算导论\test files> git add .
PS C:\study\云计算导论\test files> git commit -m "add large file (1.5G) to repo"
[master (root-commit) c7398e8] add large file (1.5G) to repo
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 1.5GB-test-file.zip
PS C:\study\云计算导论\test files> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git'
PS C:\study\云计算导论\test files> git push -u origin master:main
warning: use of unencrypted HTTP remote URLs is not recommended; see https://aka.ms/gcm/unsafeRemotes for more information.
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.50 GiB | 6.12 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To http://127.0.0.1:3000/KaleidoHeart/Repo-with-big-file.git
 * [new branch]      master -> main
branch 'master' set up to track 'origin/main'.
```

C.

1. Create a repo called Lab4 on Gitea.

创建仓库

代码仓库包含了所有的项目文件，包括版本历史记录。已经在其他地方托管了？[迁移仓库](#)。

拥有者 * KaleidoHeart

由于最大仓库数量限制，一些组织可能不会显示在下拉列表中。

仓库名称 * Lab4

理想的仓库名称应由简短、有意义和独特的关键词组成。“.profile”和“.profile-private”可用于为用户/组织添加 README.md。

可见性 将仓库设为私有
只有组织所有人或拥有权利的组织成员才能看到。

仓库描述 All works of lab4.

模板 选择模板

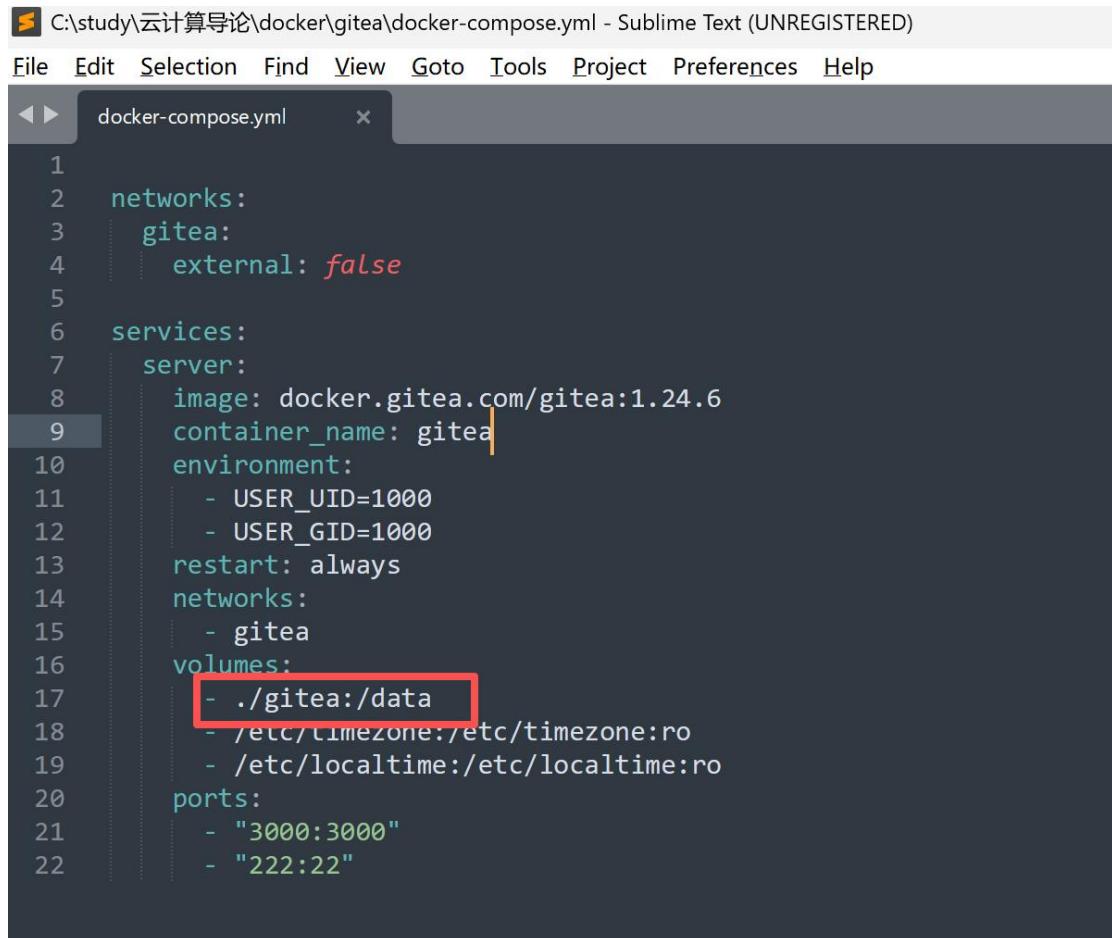
工单标签 选择一个工单标签集

2. Add all files in the folder to repo.

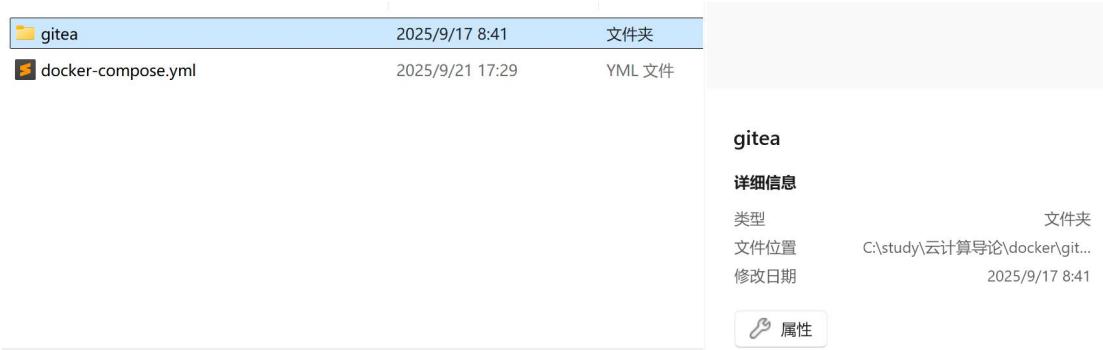
```
PS C:\study\云计算导论\Labs\Lab4> git init
Reinitialized existing Git repository in C:/study/云计算导论/Labs/Lab4/.git/
PS C:\study\云计算导论\Labs\Lab4> git add .
PS C:\study\云计算导论\Labs\Lab4> git commit -m "add all works of lab4 to repo"
[master (root-commit) 1fa7581] add all works of lab4 to repo
 4 files changed, 27 insertions(+)
create mode 100644 Lab.4.txt
create mode 100644 Lab4.docx
create mode 160000 test files
create mode 100644 ~$Lab4.docx
PS C:\study\云计算导论\Labs\Lab4> git remote add origin http://127.0.0.1:3000/KaleidoHeart/Lab4.git
PS C:\study\云计算导论\Labs\Lab4> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'http://127.0.0.1:3000/KaleidoHeart/Lab4.git'
PS C:\study\云计算导论\Labs\Lab4> git push -u origin master
remote: Failed to authenticate user
fatal: Authentication failed for 'http://127.0.0.1:3000/KaleidoHeart/Lab4.git/'
```

D.

1. Find the local file path of gitea from docker-compose.yml.



```
1
2 networks:
3   gitea:
4     external: false
5
6 services:
7   server:
8     image: docker.gitea.com/gitea:1.24.6
9     container_name: gitea
10    environment:
11      - USER_UID=1000
12      - USER_GID=1000
13    restart: always
14    networks:
15      - gitea
16    volumes:
17      - ./gitea:/data
18      - /etc/timezone:/etc/timezone:ro
19      - /etc/localtime:/etc/localtime:ro
20    ports:
21      - "3000:3000"
22      - "222:22"
```



2. Compress the folder into a zip backup file.

📁 gitea	2025/9/17 8:41	文件夹
⚡ docker-compose.yml	2025/9/21 17:29	YML 文件
.Zip gitea-backup.zip	2025/9/21 17:36	ZIP 压缩文件

3. Transfer it to another computer(wsl):

4. Install ssh

```
undefined@Undefined:~$ sudo apt update
sudo apt install -y openssh-server
sudo service ssh start
[sudo] password for undefined:
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Fetched 384 kB in 6s (63.3 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
120 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9p1-3ubuntu0.13).
0 upgraded, 0 newly installed, 0 to remove and 120 not upgraded.
```

5. Use scp to move file

```
PS C:\Windows\system32> scp "C:\study\云计算导论\docker\gitea\gitea-backup.zip" undefined@172.20.10.8:/home/undefined/
The authenticity of host '172.20.10.8 (172.20.10.8)' can't be established.
ED25519 key fingerprint is SHA256:DxfluubC+1lDJTra972Nj5pAmttGmKipouPlwiur3zo.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Please type 'yes', 'no' or the fingerprint:
Please type 'yes', 'no' or the fingerprint:
Warning: Permanently added '172.20.10.8' (ED25519) to the list of known hosts.
undefined@172.20.10.8's password:                                         100% 1541MB  32.5MB/s  00:47
gitea-backup.zip
```

6. Success

```
undefined@Undefined:~$ ls
Project  get_helm.sh  gitea-backup.zip
```