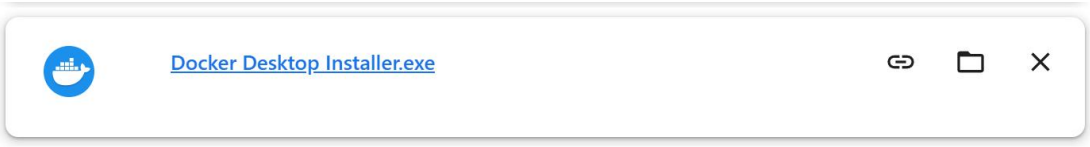
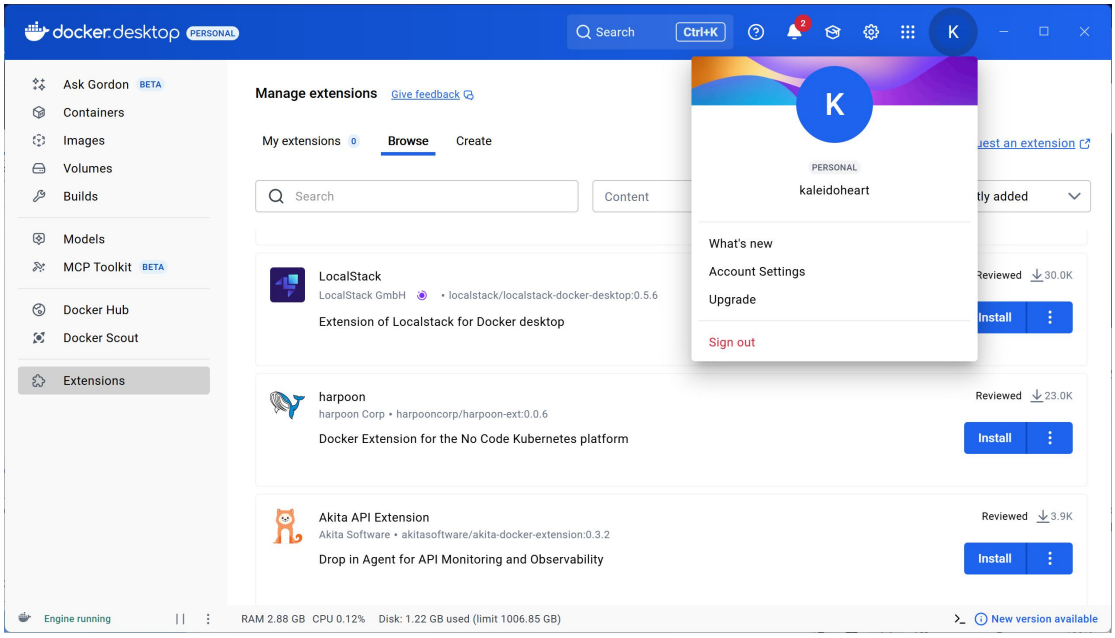
Lab4

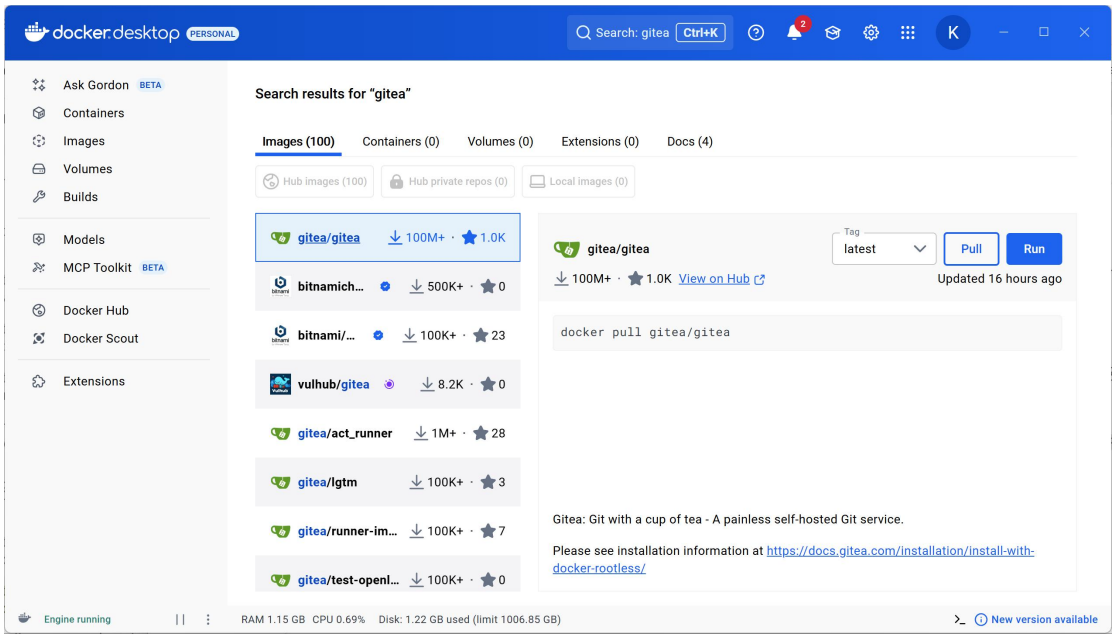
1. Install docker desktop.



2. Sign in docker desktop.



3. Pull gitea image.



4. Create docker-compose.yml

5. 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>
```

6. Use ps to check.

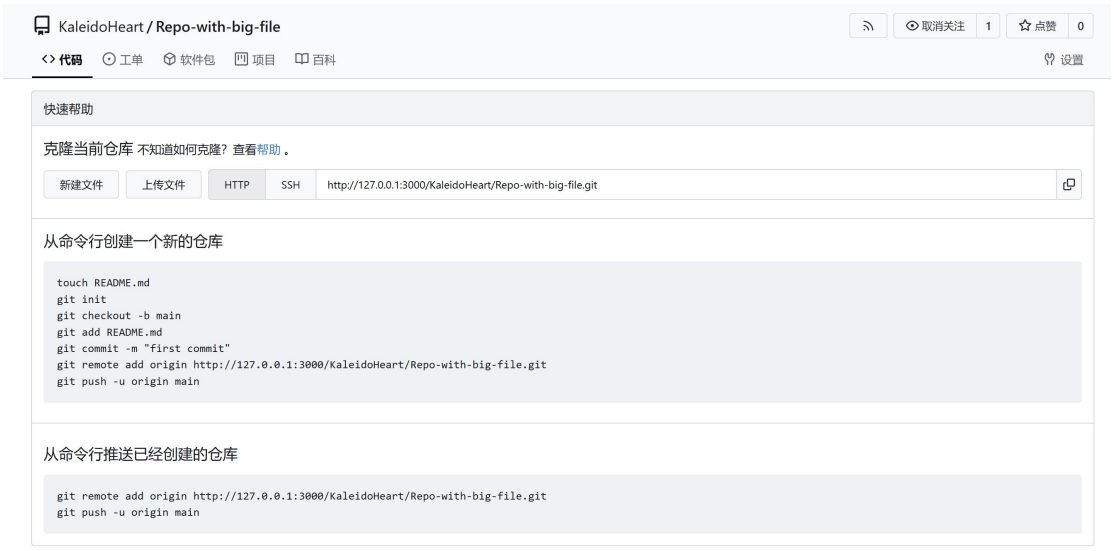
```
PS C:\study\云计算导论\docker\gitea> docker-compose ps
NAME      IMAGE                             COMMAND                  SERVICE   CREATED         STATUS         PORTS
gitea     docker.gitea.com/gitea:1.24.6   "/usr/bin/entrypoint…"   server    2 minutes ago   Up 2 minutes   0.0.0.0:3000
->3000/tcp, [::]:3000->3000/tcp, 0.0.0.0:222->22/tcp, [::]:222->22/tcp
```

7. Get to port 3000 to configure gitea.

8. Sign in. Set up successfully.

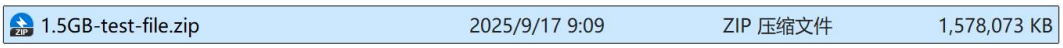
A.B.

1. Create a repo



s

2. Prepare for a 1.5GB big file.

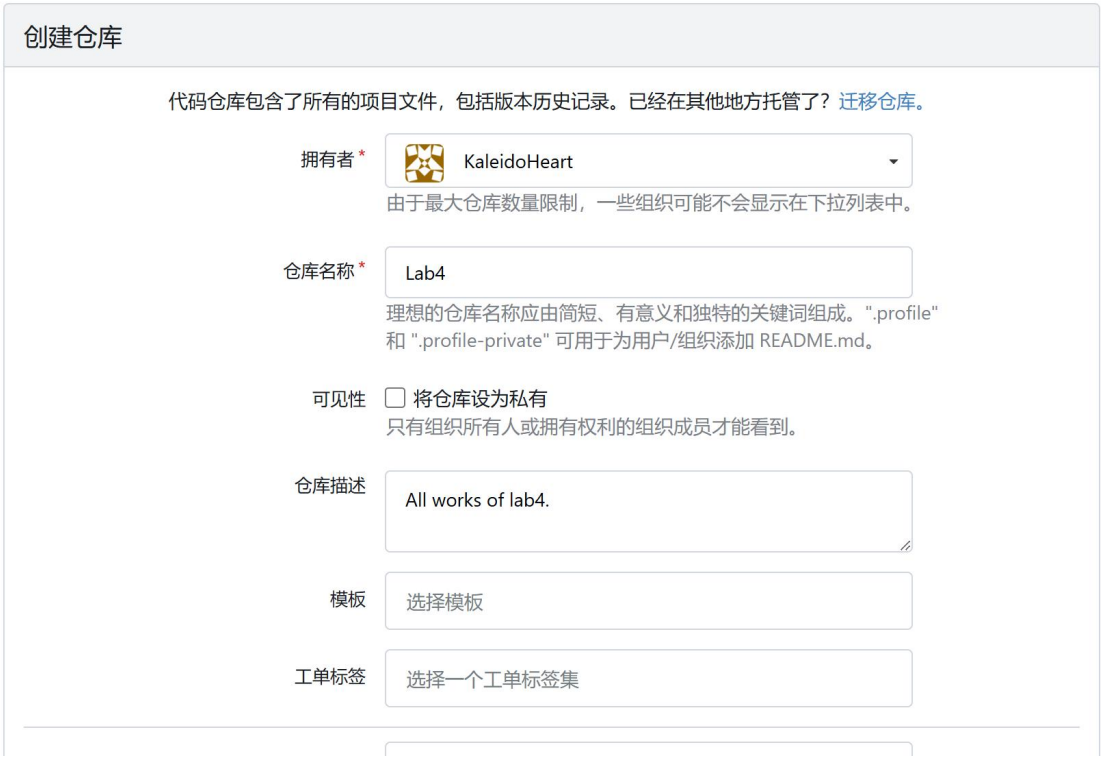


3. Use git to upload the file to repo.

```
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 informat
on.
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.

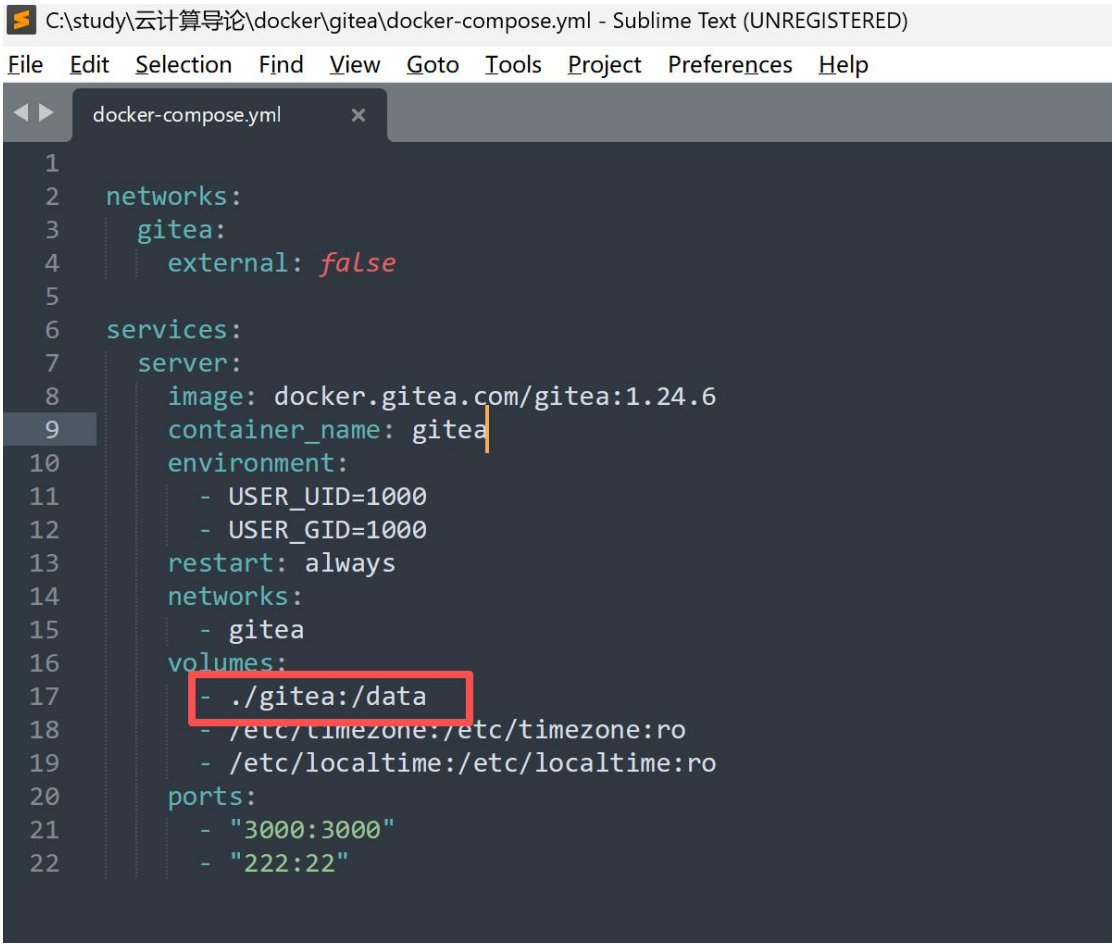


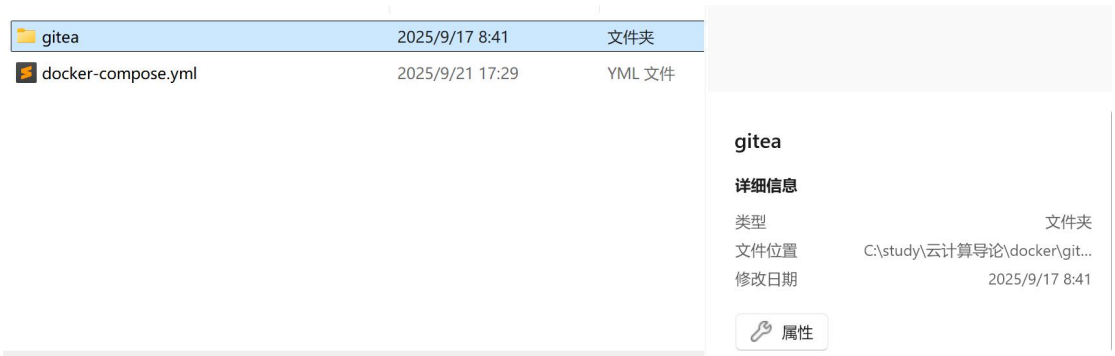
2. Add all files in the folder to repo.

```
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/'
```

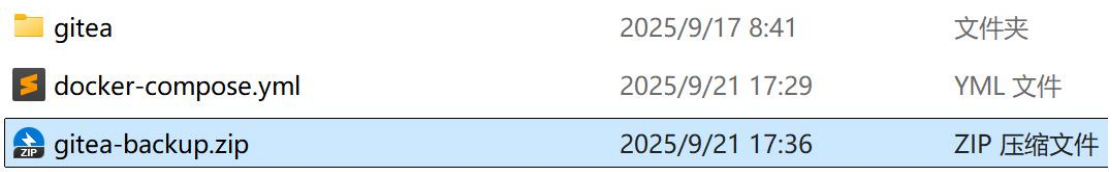
D.

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





2. Compress the folder into a zip backup file.



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+11DJTra972NJ5pAmttGmKipouP1wiur3z0.
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:
gitea-backup.zip                                      100% 1541MB  32.5MB/s   00:47
```

6. Success

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