

Install Docker

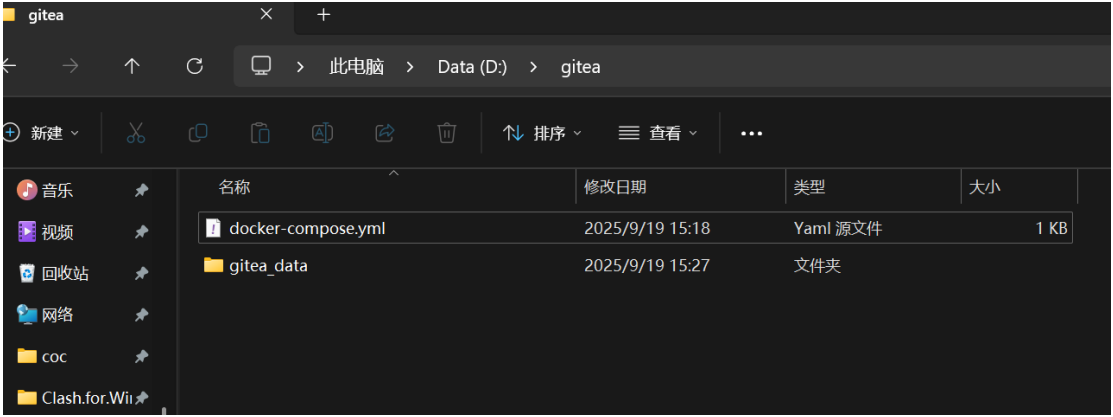
```
C:\Windows\System32>wsl --install
正在安装 Windows 可选组件: VirtualMachinePlatform

部署映像服务和管理工具
版本: 10.0.26100.1

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启用一个或多个功能
[=====100.0%=====]
操作成功完成。
请求的操作成功。直到重新启动系统前更改将不会生效。
```

Create the folder for Gitea



Configure the yml file

```

1  version: "3"
2
3  networks:
4    gitea:
5      external: false
6
7  services:
8    server:
9      image: gitea/gitea:latest
10     container_name: gitea
11     environment:
12       - USER_UID=1000
13       - USER_GID=1000
14       - GITEA__database__DB_TYPE=sqlite3
15       - GITEA__database__PATH=/data/gitea/gitea.db
16     restart: always
17     networks:
18       - gitea
19     volumes:
20       - ./gitea_data:/data
21       - /etc/timezone:/etc/timezone:ro
22       - /etc/localtime:/etc/localtime:ro
23     ports:
24       - "3000:3000"
25       - "222:22"

```

Running gitea

```

PS D:\gitea> docker-compose up -d
time="2025-09-19T15:27:20+08:00" level=warning msg="D:\\gitea\\docker-compose.yml: the attribute 'version' is obsolete,
it will be ignored, please remove it to avoid potential confusion"
[*] Running 8/8
✓server Pulled 15.1s
  ✓3b7dba00267e Pull complete 0.4s
  ✓89986d54bad9 Pull complete 1.0s
  ✓9824c27679d3 Pull complete 1.5s
  ✓307c463a9ebe Pull complete 8.0s
  ✓dc71ac9fe925 Pull complete 11.8s
  ✓e7ea2b7110b2 Pull complete 8.1s
  ✓a4ebd224fde1 Pull complete 4.3s
[*] Running 2/2
✓Network gitea_gitea Created 0.0s
✓Container gitea Started 0.6s

```

Carry out initial configuration

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 * Galaxy

您可以在这里输入您公司的名称。

仓库根目录 * /data/git/repositories

所有远程 Git 仓库将保存到此目录。

LFS根目录 /data/git/lfs

存储为Git LFS的文件将被存储在此目录。留空禁用LFS

以用户名运行 * git

输入 Gitea 运行的操作系统用户名。请注意，此用户必须具有对仓库根路径的访问权限。

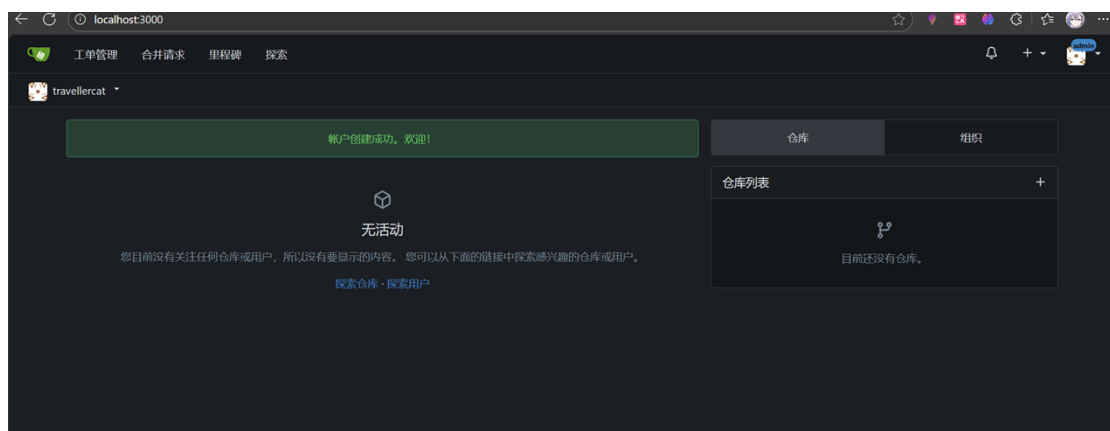
服务器域名 * localhost

服务器的域名或主机地址。

SSH 服务端口 222

SSH 服务器的端口号，为空则禁用它。

HTTP 服务端口 * 3000



- a. Does it support LFS? prove it.

```
PS D:\gitea> docker exec -it gitea sh
/ # git --version
git version 2.49.1
/ # git lfs env
git: 'lfs' is not a git command. See 'git --help'.

The most similar command is
    refs
/ # apk update
fetch https://dl-cdn.alpinelinux.org/alpine/v3.22/main/x86_64/APKINDEX.tar.gz
fetch https://dl-cdn.alpinelinux.org/alpine/v3.22/community/x86_64/APKINDEX.tar.gz
v3.22.1-445-g80eb2394328 [https://dl-cdn.alpinelinux.org/alpine/v3.22/main]
v3.22.1-444-ge9d929da4c9 [https://dl-cdn.alpinelinux.org/alpine/v3.22/community]
OK: 26326 distinct packages available
/ # apk add git-lfs
(1/1) Installing git-lfs (3.6.0-r7)
Executing git-lfs-3.6.0-r7.post-install
Git LFS initialized.
Executing busybox-1.37.0-r18.trigger
OK: 64 MiB in 88 packages
/ # git lfs env
git-lfs/3.6.0 (GitHub; linux amd64; go 1.24.7; git v3.6.0)
git version 2.49.1

LocalWorkingDir=
LocalGitDir=
LocalGitStorageDir=
LocalMediaDir=lfs/objects
LocalReferenceDirs=
TempDir=lfs/tmp
ConcurrentTransfers=8
TusTransfers=false
BasicTransfersOnly=false
SkipDownloadErrors=false
FetchRecentAlways=false
FetchRecentRefsDays=7
FetchRecentCommitsDays=0
FetchRecentRefsIncludeRemotes=true
PruneOffsetDays=3
PruneVerifyRemoteAlways=false
PruneVerifyUnreachableAlways=false
PruneRemoteName=origin
LfsStorageDir=lfs
AccessDownload=none
AccessUpload=none
DownloadTransfers=basic,lfs-standalone-file,ssh
UploadTransfers=basic,lfs-standalone-file,ssh
GIT_EXEC_PATH=/usr/libexec/git-core
git config filter.lfs.process = "git-lfs filter-process"
git config filter.lfs.smudge = "git-lfs smudge -- %f"
git config filter.lfs.clean = "git-lfs clean -- %f"
```

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

Configure Git LFS Locally

```
PS D:\gitea> git lfs install
Git LFS initialized.
PS D:\gitea> git clone http://localhost:3000/travellercat/large-file-repo.git
Cloning into 'large-file-repo'...
warning: You appear to have cloned an empty repository.
PS D:\gitea> cd large-file-repo
PS D:\gitea\large-file-repo> git lfs track "*"
Tracking "*"
PS D:\gitea\large-file-repo>
```

Generate and add large files

```
PS D:\gitea\large-file-repo> fsutil file createNew test_large_file.bin 1073741824
已创建文件 D:\gitea\large-file-repo\test_large_file.bin
```

Submit and push large files:

```
PS D:\gitea\large-file-repo> fsutil file createNew test_large_file.bin 1073741824
已创建文件 D:\gitea\large-file-repo\test_large_file.bin
PS D:\gitea\large-file-repo> git add .gitattributes test_large_file.bin
PS D:\gitea\large-file-repo> git commit -m "添加大文件测试"
[master c03c2cf] 添加大文件测试
 1 file changed, 2 insertions(+), 2 deletions(-)
PS D:\gitea\large-file-repo> git push origin main
warning: use of unencrypted HTTP remote URLs is not recommended; see https://aka.ms/gcm/unsaferepotes for more informati
on.
Locking support detected on remote "origin". Consider enabling it with:
  $ git config lfs.http://localhost:3000/travellercat/large-file-repo.git/info/lfs.locksverify true
Uploading LFS objects: 100% (2/2), 1.1 GB | 115 MB/s, done.
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 32 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 518 bytes | 518.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To http://localhost:3000/travellercat/large-file-repo.git
 * [new branch]      main -> main
```

 travellercat / large-file-repo

 代码  工单  合并请求  Actions  软件包  项目  版本发布  百科  动态

 1 提交  1 分支  0 Git 标签

 main  转到文件  添加文件  代码

 Zhang Chujiacheng  fd9ebcb752 添加大文件测试 22分钟前
 .gitattributes 添加大文件测试 22分钟前
 test_large_file.bin 添加大文件测试 22分钟前