

Gitea

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Gitea ??

????

- **PVE**
- **LXC**
- **Debian 12**

??nginx mariadb

```
apt update
```

```
apt -y install nginx mariadb-server git
```

```
systemctl enable nginx && systemctl start nginx
```

```
systemctl enable mariadb && systemctl start mariadb
```

?????

```
mysql -u root -p
```

```
CREATE DATABASE IF NOT EXISTS gitea DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
```

```
GRANT ALL PRIVILEGES ON gitea.* TO 'giteauser'@'localhost' IDENTIFIED BY 'giteapass' WITH  
GRANT OPTION;
```

```
FLUSH PRIVILEGES;
```

```
exit
```

??gitea?????

```
wget -O gitea https://dl.gitea.com/gitea/main-nightly/gitea-main-nightly-linux-amd64  
chmod +x gitea
```

???????Gitea

```
adduser \  
--system \  
--
```

```
--shell /bin/bash \  
--gecos 'Git Version Control' \  
--group \  
--disabled-password \  
--home /home/git \  
git
```

???????

```
mkdir -p /var/lib/gitea/{custom,data,log}  
chown -R git:git /var/lib/gitea/  
chmod -R 750 /var/lib/gitea/  
mkdir /etc/gitea  
chown root:git /etc/gitea  
chmod 770 /etc/gitea
```

?? Gitea ????

```
export GITEA_WORK_DIR=/var/lib/gitea/
```

??Gitea?????

```
cp gitea /usr/local/bin/gitea
```

??service????

 `/etc/systemd/system/gitea.service`

```
[Unit]  
Description=Gitea (Git with a cup of tea)  
After=network.target  
[Service]  
RestartSec=2s  
Type=simple  
User=git  
Group=git  
WorkingDirectory=/var/lib/gitea/  
ExecStart=/usr/local/bin/gitea web --config /etc/gitea/app.ini  
Restart=always  
Environment=USER=git HOME=/home/git GITEA_WORK_DIR=/var/lib/gitea  
[Install]
```

```
WantedBy=multi-user.target
```

```
systemctl enable gitea
systemctl start gitea
```

□□□□ **http://IP:3000** □□

The diagram illustrates a distributed system architecture. It consists of three main components arranged horizontally: a **Web** layer, a **/etc/gitea** layer, and a **git** layer. The **Web** layer is represented by a blue box containing a grid of 16 small squares (4 rows by 4 columns). The **/etc/gitea** layer is represented by a blue box containing a grid of 8 small squares (2 rows by 4 columns). The **git** layer is represented by a blue box containing a grid of 16 small squares (4 rows by 4 columns). Arrows indicate the flow of data or interaction between these layers: a large blue arrow points from the **Web** layer to the **/etc/gitea** layer, and a large blue arrow points from the **/etc/gitea** layer to the **git** layer. Additionally, a large blue arrow points from the **Web** layer to the **git** layer, suggesting a direct interaction or data flow.

```
chmod 750 /etc/gitea
chmod 640 /etc/gitea/app.ini
```

Gitea ????

????

- `nginx.conf` **Nginx**

????????

`location /gitea/`

```
server {  
    ...  
    location ~ ^/(gitea)($/|/) {  
        client_max_body_size 512M;  
  
        rewrite ^ $request_uri;  
        rewrite ^/(gitea($|/))?(.*) /$3 break;  
        proxy_pass http://ip:3000$uri;  
  
        proxy_set_header Connection $http_connection;  
        proxy_set_header Upgrade $http_upgrade;  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header X-Forwarded-Proto $scheme;  
    }  
}
```

Gitea????

`/etc/gitea/app.ini`

```
[server]  
...  
ROOT_URL = https://example.com/gitea
```

```
service gitea restart
```

`https://example.com/gitea`

Gitea ????

SSH

```
cmd
```

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

Copy

id_rsa.pub **gitea web** **ssh**

master

```
git config --global init.defaultBranch master
```

Copy

git

```
git init
```

Copy

```
git add <files> #
```

```
git add . #
```

Copy

```
git commit -m "xxx"
```

Copy

```
git config --global user.name "John Doe"
```

```
git config --global user.email johndoe@example.com
```

Copy

gitea

```
git remote add <origin> <url> #连接到gitea仓库
```

```
>>git remote add main https://xxx.git
```

Copy

❏ remote

```
git remote -v
```

Copy

❏ push

```
git push -u main master #第一次推送
```

Copy

❏ gitea

```
git remote remove main #删除
```

Copy

❏ tag

```
git tag v1 #打tag
```

```
git push <origin> v1 #推送tag
```