

## Install Gogs on Ubuntu 20.04 with MariaDB

These instructions will install [Gogs](#) on an Ubuntu 20.04 server using the MariaDB back-end. Gogs is a self-hosted front-end to [Git](#). Gogs is extremely lightweight and comes in a single binary file. It also supports multiple back-end databases including PostgreSQL, MySQL, or SQLite3.

These commands assume you are running as *root* or *sudo*. All scripts also rely on the install directory being */home/git*. Remember to set your own password wherever a *password* is needed.

### Install MariaDB

```
apt install mariadb-server  
mysql_secure_installation
```

### Download and extract the latest/desired version of Gogs from [dl.gogs.io/](https://dl.gogs.io/)

```
wget https://dl.gogs.io/0.12.3/gogs_0.12.3_linux_amd64.tar.gz  
tar xzvf https://dl.gogs.io/0.12.3/gogs_0.12.3_linux_amd64.tar.gz
```

### Create a systemd service file in */lib/systemd/system/gogs.service*

```
[Unit]  
Description=Gogs  
After=syslog.target  
After=network.target  
  
[Service]  
LimitMEMLOCK=infinity  
LimitNOFILE=4000  
RestartSec=2s  
Type=simple  
User=git  
Group=git  
WorkingDirectory=/home/git  
ExecStart=/home/git/gogs/gogs web  
Restart=always  
Environment=USER=git HOME=/home/git GOGS_WORK_DIR=/home/git  
  
[Install]  
WantedBy=multi-user.target
```

### Enable Gogs service

```
systemctl enable gogs
```

### Start Gogs service

```
systemctl start gogs
```

### Install nginx

```
apt install nginx
```

## Log in to MariaDB to create a user and database

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

## Create database

```
CREATE DATABASE IF NOT EXISTS gogs CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;
```

## Create user and grant privileges

```
CREATE USER 'gogs'@'localhost' IDENTIFIED BY 'password';  
GRANT ALL PRIVILEGES ON gogs.* TO 'gogs'@'localhost';  
FLUSH PRIVILEGES;  
EXIT;
```

## Create nginx proxy file. Note that I am using an SSL certificate here. If you do not have your own certificate, you can use [certbot](#).

```
server {  
    listen 80;  
    server_name gogs.domain.edu;  
    return 301 https://$server_name$request_uri;  
}  
  
server {  
    listen 443 ssl;  
    server_name gogs.domain.edu;  
  
    ssl_certificate /etc/nginx/ssl/cert.pem;  
    ssl_certificate_key /etc/nginx/ssl/key.key;  
  
    location / {  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_pass http://127.0.0.1:3000/;  
    }  
}
```

## Test your nginx configuration file

```
nginx -t
```

## Restart nginx

```
systemctl restart nginx
```

**Set the external URL by editing `/home/git/custom/conf/app.ini`**

**Continue the installation using the web interface <https://gogs.domain.edu>**

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