

Build Social Network with Mastodon

- [Installation](#)

Installation

Docker Compose

services:

db:

image: postgres:15

container_name: mastodon_db

environment:

POSTGRES_USER: mastodon

POSTGRES_PASSWORD: mastodon_password

POSTGRES_DB: mastodon_production

volumes:

- mastodon_postgres:/var/lib/postgresql/data

redis:

image: redis:7

container_name: mastodon_redis

command: ["redis-server", "--save", "60", "1", "--loglevel", "warning"]

volumes:

- mastodon_redis:/data

web:

image: tootsuite/mastodon:v4.2.0

container_name: mastodon_web

depends_on:

- db

- redis

env_file: .env

command: bash -c "RAILS_ENV=production bundle exec rails s -p 3000 -b '0.0.0.0'"

ports:

- "3000:3000"

volumes:

- mastodon_public:/mastodon/public

restart: always

streaming:

image: tootsuite/mastodon:v4.2.0

container_name: mastodon_streaming

depends_on:

- redis

env_file: .env

command: npm run start

ports:

- "4000:4000"

restart: always

sidekiq:

image: tootsuite/mastodon:v4.2.0

container_name: mastodon_sidekiq

depends_on:

- db

- redis

env_file: .env

command: bash -c "RAILS_ENV=production bundle exec sidekiq"

restart: always

caddy:

image: caddy:latest

container_name: mastodon_caddy

ports:

- "80:80"

- "443:443"

volumes:

- ./Caddyfile:/etc/caddy/Caddyfile

- caddy_data:/data

- caddy_config:/config

volumes:

mastodon_postgres:

mastodon_redis:

mastodon_public:

caddy_data:

caddy_config:

Create the Caddyfile

```
yourdomain.com {  
  reverse_proxy web:3000  
}  
  
streaming.yourdomain.com {  
  reverse_proxy streaming:4000  
}
```

Generate Secret

Repeat following command for:

- SECRET_KEY_BASE
- OTP_SECRET

```
docker run --rm tootsuite/mastodon:v4.2.0 bundle exec rake secret
```

Generate VAPID keys:

```
docker run --rm tootsuite/mastodon:v4.2.0 bundle exec rake mastodon:webpush:generate_vapid_key
```

Configuration

```
# Mastodon Environment Variables  
LOCAL_DOMAIN=domain.com  
SECRET_KEY_BASE=generate_a_secret_key  
OTP_SECRET=generate_an_otp_secret  
VAPID_PRIVATE_KEY=generate_vapid_private_key  
VAPID_PUBLIC_KEY=generate_vapid_public_key  
  
DB_HOST=db
```

```
DB_USER=mastodon
DB_NAME=mastodon_production
DB_PASS=mastodon_password
REDIS_HOST=redis

# SMTP Configuration
SMTP_SERVER=smtp.your-email-provider.com
SMTP_PORT=587
SMTP_LOGIN=your-email@example.com
SMTP_PASSWORD=your-email-password
SMTP_FROM_ADDRESS=Mastodon <notifications@yourdomain.com>
```

Start Mastodon

```
docker-compose up -d
```