

Gitlab Server

Installation

- <https://docs.gitlab.com/install/>

With Docker

```
mkdir /mygitlab

docker run --detach \
  --hostname mygit.example.com \
  --publish 80:80 \
  --name gitlab \
  --volume /mygitlab/config:/etc/gitlab \
  --volume /mygitlab/logs:/var/log/gitlab \
  --volume /mygitlab/data:/var/opt/gitlab \
  --rm \
  gitlab/gitlab-ce:17.11.7-ce.0
```

Config

- <https://docs.gitlab.com/administration/>

???????????

- ?????? /etc/gitlab/gitlab.rb
- ?????????? /var/log/gitlab/*
- ??????? /etc/gitlab/gitlab-secrets.json

Custom port

- <https://docs.gitlab.com/install/docker/configuration/#expose-gitlab-on-different-ports>

1- docker command

- ??????????host ? container ????????????


```
base: 'OU=YOURDOMAIN,DC=example,DC=com' # LDAPBaseDN
user_filter: ''
EOS
```

SMTP

- <https://docs.gitlab.com/omnibus/settings/smtp/>

gitlab-ctl commands

```
# Check the services
> gitlab-ctl status

run: alertmanager: (pid 820) 3073s; run: log: (pid 619) 3108s
run: gitaly: (pid 291) 3170s; run: log: (pid 309) 3169s
run: gitlab-exporter: (pid 799) 3075s; run: log: (pid 567) 3126s
run: gitlab-kas: (pid 452) 3158s; run: log: (pid 464) 3155s
run: gitlab-workhorse: (pid 791) 3075s; run: log: (pid 513) 3138s
run: logrotate: (pid 260) 3182s; run: log: (pid 268) 3181s
run: nginx: (pid 540) 3133s; run: log: (pid 550) 3132s
run: postgres-exporter: (pid 828) 3073s; run: log: (pid 738) 3100s
run: postgresql: (pid 316) 3164s; run: log: (pid 449) 3161s
run: prometheus: (pid 809) 3074s; run: log: (pid 606) 3112s
run: puma: (pid 467) 3152s; run: log: (pid 475) 3148s
run: redis: (pid 272) 3176s; run: log: (pid 288) 3173s
run: redis-exporter: (pid 801) 3074s; run: log: (pid 588) 3120s
run: sidekiq: (pid 479) 3145s; run: log: (pid 488) 3144s
run: sshd: (pid 36) 3192s; run: log: (pid 35) 3192s

> gitlab-ctl status postgresql
run: postgresql: (pid 316) 3748s; run: log: (pid 449) 3745s
```

```
# Reload the configuration
> gitlab-ctl reconfigure
```

```
# Restart the service puma
> gitlab-ctl restart puma
```

```
# Restart all services
> gitlab-ctl restart
```

Backup & Restore

- <https://docs.gitlab.com/install/docker/backup/>
- https://docs.gitlab.com/administration/backup_restore/
- [??????](#)

```
?????????? gitlab-backup ?????????????????? /etc/gitlab ??????
1. gitlab.rb (?????)
2. gitlab-secrets.json (?????) : ????????????
```

With Docker

- ??? (`??_??_??_gitlab_backup.tar`) ????? container ??? `/var/opt/gitlab/backups` (??)

```
# Backup
docker exec -it <container-name> gitlab-backup create

# Backup DB only
docker exec -it <container-name> gitlab-backup create
SKIP=artifacts,repositories,registry,uploads,builds,pages,lfs,packages,terraform_state

# Verify the backup file
docker exec -it <container-name> ls /var/opt/gitlab/backups

# Restore
docker exec -it <container-name> bash
> gitlab-ctl stop puma
> gitlab-ctl stop sidekiq
> gitlab-ctl status

> gitlab-backup restore BACKUP=1704810663_2024_01_09_17.11.1
# Restore DB only
> gitlab-backup restore BACKUP=1704810663_2024_01_09_17.11.1
```


/etc/gitlab/gitlab.rb :

```
# IP allowlist endpoints
gitlab_rails['monitoring_whitelist'] = ['127.0.0.0/8', '10.18.109.0/24']
```

????

```
> gitlab-ctl reconfigure
```

HTTP GET

```
GET /health_check
GET /health_check/database
GET /health_check/cache
GET /health_check/migrations
```

Troubleshooting

Troubleshoot Tips

1. Check the container log? `docker logs -f <container-name>`
????????????????????????????
2. Check the status of the services ? `gitlab-ctl status`
??
3. Check the nginx's log ? `/var/log/nginx/error.log` ??????????????????????

HTTP 502

1. ????????? 4GB????????????????????????
2. ????????? host ? container ?????? port ???Gitlab ?????????????????? port??? puma
????? 8080????????????????????? port ?????? `gitlab.rb` ?

HTTP 500

- ?? Admin ??????????
- ?? `gitlab-secrets.json` (?????)?????????????????