

# Gitlab backup

## Making backup

- block gitlab access (but leave maintenance web page)
  - gitlab-ctl deploy-page up
  - sudo gitlab-ctl stop unicorn
  - sudo gitlab-ctl stop sidekiq
- Store configuration file manually (/etc/gitlab)
- Trigger backup creation
  - gitlab-rake gitlab:backup:create
- Start gitlab
  - gitlab-ctl start
  - gitlab-ctl deploy-page down

Make backup without repository

```
gitlab-rake gitlab:backup:create SKIP=repositories,uploads
```

For possible rake tasks to skip see into file /opt/gitlab/embedded/service/gitlab-rails/lib/tasks/gitlab/backup.rake. For now it can be:  
repositories,db,buils,uploads,artifacts,lfs

## Automating backups

crontab -e

```
0 2 * * * /opt/gitlab/bin/gitlab-rake gitlab:backup:create CRON=1
```

## What is in backup

Backup file e.g.: 1462327272\_gitlab\_backup.tar is simple tar archive with example content:

```
|-- artifacts.tar.gz
|-- backup_information.yml
|-- builds.tar.gz
|-- db
|   |-- database.sql.gz
|-- lfs.tar.gz
|-- repositories
|   |-- group1
|   |   |-- http-server.bundle
|   |   |-- kernel.bundle
|   |-- group2
|   |   |-- buildroot.bundle
```

```
| | | -- linux-stable.bundle
| | | -- u-boot.bundle
| | `-- yocto.bundle
| `-- user1
|     |-- buildroot.bundle
|     |-- linux-stable.bundle
|     |-- linux.bundle
|     |-- uboot.bundle
|-- uploads.tar.gz
```

Where .bundle files are simple tar archives of bare git repos.

## Restoring backup

- install exactly the same version from backup comes
  - to wrap initctl with systemctl, use <https://gist.github.com/zorael/8907216>
- install default gitlab package and make sure it is running
  - use `/etc/gitlab`` from backup
  - run `gitlab-ctl reconfigure`
- stop gitlab

```
sudo gitlab-ctl stop unicorn
sudo gitlab-ctl stop puma
sudo gitlab-ctl stop sidekiq
# Verify
sudo gitlab-ctl status
```

- Prepare backup file/directory
  - Make sure that backup pointed by `gitlab_rails['backup_path']`` is owned by `git`` user.
- Restore backup
  - `sudo gitlab-backup restore`
  - OR `sudo gitlab-backup restore BACKUP=1393513186`
- Start GitLab
  - `sudo gitlab-ctl start`
- Check GitLab
  - `sudo gitlab-rake gitlab:check SANITIZE=true`

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