# GitLab备份

对gitlab进行备份将会创建一个包含所有库和附件的归档文件。对备份的恢复只能恢复到与备份时的gitlab相同的版本。将gitlab迁移到另一台服务器上的最佳方法就是通过备份和还原。

gitlab提供了一个简单的命令行来备份整个gitlab，并且能灵活的满足需求。

备份文件将保存在配置文件中定义的backup\_path中，文件名为TIMESTAMP\_gitlab\_backup.tar,TIMESTAMP为备份时的时间戳。TIMESTAMP的格式为：EPOCH\_YYYY\_MM\_DD\_Gitlab-version。

如果自定义备份目录需要赋予git权限

配置文件中加入/etc/gitlab/gitlab.rb

gitlab\_rails['backup\_path'] = '/data/backup/gitlab'

gitlab\_rails['backup\_keep\_time'] = 604800 备份保留的时间（以秒为单位，这个是七天默认值），

mkdir /data/backup/gitlab

chown -R git.git /data/backup/gitlab

完成后执行gitlab-ctl reconfigure

### 1、手动备份

执行：gitlab-rake gitlab:backup:create生成一次备份。

[root@node2 ~]# gitlab-rake gitlab:backup:create

Dumping database ...

Dumping PostgreSQL database gitlabhq\_production ... [DONE]

done

Dumping repositories ...

\* web-site/frontend ... [DONE]

\* web-site/frontend.wiki ... [SKIPPED]

\* web-site/backend ... [SKIPPED]

\* web-site/backend.wiki ... [SKIPPED]

\* devops/accout ... [DONE]

\* devops/accout.wiki ... [SKIPPED]

\* devops/user ... [DONE]

\* devops/user.wiki ... [SKIPPED]

\* web-site/accout ... [DONE]

\* web-site/accout.wiki ... [SKIPPED]

done

Dumping uploads ...

done

Dumping builds ...

done

Dumping artifacts ...

done

Dumping pages ...

done

Dumping lfs objects ...

done

Dumping container registry images ...

[DISABLED]

Creating backup archive: 1512811475\_2017\_12\_09\_10.2.2\_gitlab\_backup.tar ... done

Uploading backup archive to remote storage ... skipped

Deleting tmp directories ... done

done

done

done

done

done

done

done

Deleting old backups ... skipping

[root@node2 ~]# ll /var/opt/gitlab/backups/

total 272

-rw------- 1 git git 276480 Dec 9 17:24 1512811475\_2017\_12\_09\_10.2.2\_gitlab\_backup.tar

### 2、定时备份

在定时任务里添加：

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

环境变量CRON=1的作用是如果没有任何错误发生时， 抑制备份脚本的所有进度输出。

### 3、恢复

只能还原到与备份文件相同的gitlab版本。

执行恢复操作时，需要gitlab处于运行状态，备份文件位于gitlab\_rails['backup\_path']。

[root@node2 ~]# ll /var/opt/gitlab/backups/

total 272

-rw------- 1 git git 276480 Dec 9 17:24 1512811475\_2017\_12\_09\_10.2.2\_gitlab\_backup.tar

停止连接到数据库的进程（也就是停止数据写入服务），但是保持GitLab是运行的。

[root@node2 ~]# gitlab-ctl stop unicorn

ok: down: unicorn: 0s, normally up

[root@node2 ~]# gitlab-ctl stop sidekiq

ok: down: sidekiq: 0s, normally up

确认：

[root@node2 ~]# gitlab-ctl status

run: gitaly: (pid 1497) 0s; run: log: (pid 540) 0s

run: gitlab-monitor: (pid 1507) 0s; run: log: (pid 543) 0s

run: gitlab-workhorse: (pid 1517) 0s; run: log: (pid 508) 0s

run: logrotate: (pid 14405) 1564s; run: log: (pid 510) 0s

run: nginx: (pid 1532) 0s; run: log: (pid 507) 0s

run: node-exporter: (pid 1538) 0s; run: log: (pid 525) 0s

run: postgres-exporter: (pid 1543) 0s; run: log: (pid 530) 0s

run: postgresql: (pid 1551) 0s; run: log: (pid 492) 0s

run: prometheus: (pid 1559) 0s; run: log: (pid 535) 0s

run: redis: (pid 1567) 0s; run: log: (pid 491) 0s

run: redis-exporter: (pid 1572) 0s; run: log: (pid 547) 0s

down: sidekiq: 121s, normally up; run: log: (pid 500) 0s

down: unicorn: 133s, normally up; run: log: (pid 502) 0s

[root@node2 ~]#

接下我们进行恢复，指定时间戳你要从那个备份恢复：

[root@node2 ~]# gitlab-rake gitlab:backup:restore BACKUP=1512811475\_2017\_12\_09\_10.2.2

Unpacking backup ... done

Before restoring the database, we will remove all existing

tables to avoid future upgrade problems. Be aware that if you have

custom tables in the GitLab database these tables and all data will be

removed.

Do you want to continue (yes/no)?

将移除我们自建的表。回答yes

Restoring uploads ...

done

Restoring builds ...

done

Restoring artifacts ...

done

Restoring pages ...

done

Restoring lfs objects ...

done

This will rebuild an authorized\_keys file.

You will lose any data stored in authorized\_keys file.

Do you want to continue (yes/no)?

将移除所有的认证Key。回答yes

....

Deleting tmp directories ... done

done

done

done

done

done

done

done

完成后重启GitLab服务

[root@node2 ~]# gitlab-ctl restart

ok: run: gitaly: (pid 18194) 0s

ok: run: gitlab-monitor: (pid 18204) 0s

ok: run: gitlab-workhorse: (pid 18209) 1s

ok: run: logrotate: (pid 18224) 0s

ok: run: nginx: (pid 18231) 1s

ok: run: node-exporter: (pid 18237) 0s

ok: run: postgres-exporter: (pid 18242) 0s

ok: run: postgresql: (pid 18314) 0s

ok: run: prometheus: (pid 18317) 1s

ok: run: redis: (pid 18326) 0s

ok: run: redis-exporter: (pid 18330) 0s

ok: run: sidekiq: (pid 18345) 0s

ok: run: unicorn: (pid 18354) 0s

检查GitLab的服务

[root@node2 ~]# gitlab-rake gitlab:check SANITIZE=true

Checking GitLab Shell ...

GitLab Shell version >= 5.9.4 ? ... OK (5.9.4)

Repo base directory exists?

default... yes

Repo storage directories are symlinks?

default... no

Repo paths owned by git:root, or git:git?

default... yes

Repo paths access is drwxrws---?

default... yes

hooks directories in repos are links: ...

2/3 ... ok

2/4 ... repository is empty

7/5 ... ok

7/7 ... ok

2/8 ... ok

Running /opt/gitlab/embedded/service/gitlab-shell/bin/check

Check GitLab API access: OK

Redis available via internal API: OK

Access to /var/opt/gitlab/.ssh/authorized\_keys: OK

gitlab-shell self-check successful

Checking GitLab Shell ... Finished

Checking Sidekiq ...

Running? ... yes

Number of Sidekiq processes ... 1

Checking Sidekiq ... Finished

Reply by email is disabled in config/gitlab.yml

Checking LDAP ...

LDAP is disabled in config/gitlab.yml

Checking LDAP ... Finished

Checking GitLab ...

Git configured correctly? ... yes

Database config exists? ... yes

All migrations up? ... yes

Database contains orphaned GroupMembers? ... no

GitLab config exists? ... yes

GitLab config up to date? ... yes

Log directory writable? ... yes

Tmp directory writable? ... yes

Uploads directory exists? ... yes

Uploads directory has correct permissions? ... yes

Uploads directory tmp has correct permissions? ... skipped (no tmp uploads folder yet)

Init script exists? ... skipped (omnibus-gitlab has no init script)

Init script up-to-date? ... skipped (omnibus-gitlab has no init script)

Projects have namespace: ...

2/3 ... yes

2/4 ... yes

7/5 ... yes

7/7 ... yes

2/8 ... yes

Redis version >= 2.8.0? ... yes

Ruby version >= 2.3.5 ? ... yes (2.3.5)

Git version >= 2.7.3 ? ... yes (2.13.6)

Git user has default SSH configuration? ... yes

Active users: ... 5

Checking GitLab ... Finished