20/05/2025, 12:25

Backup/Restore — Tuleap latest version documentation



WHAT IS TULEAP SOLUTIONS GET STARTED COMMUNITY RESOURCES BLOG

Docs » Administration guide » System administration » Backup/Restore

Backup/Restore

This documentation is here to help you set up your backup. Be careful with this, it's just a guide and you will probably want to backup more things.

If you installed Tuleap on a virtual environment and you are able to use snapshots, the simplest backup solution is to suspend tuleap services and then make a snapshot.

Otherwise here are some tips to backup and restore your Tuleap infrastructure.

Backup for RPM Deployment on RHEL/Alma/Rocky

SUSPEND SERVICES

Depending on services you use, you will want to stop them before the backup (It should guarantee you a consistent backup):

```
$ systemctl stop nginx
$ systemctl stop httpd
$ systemctl stop tuleap
$ su - gitolite -c "gitolite writable @all off 'Backup in progress'"
```

Don't forget to restart services once the backup is done.

DATABASE BACKUP

Tuleap main database is tuleap, but additionnal databases can be used for plugins. To show them use:

```
$ mysql -u codendiadm -p -e "show databases;"
```

You can write a script to backup each database independently or use | mysqldump | to backup all databases:

```
$ mysqldump -u codendiadm -p --all-databases > mybackup.sql
```

TULEAP DATA PATHS BACKUP

You need to save the following directories:

- /etc/nginx
- /etc/redis
- /etc/tuleap
- /var/lib/gitolite/var/lib/tuleap

Some directories might not exist depending on your configuration (plugins installed or not).

Backup for Docker/Compose Deployment

SUSPEND SERVICES

Depending on the services you use, you will want to stop them before the process, it should guarantee you a consistent backup:

```
$ cd /path_to/tuleap_compose
$ docker compose stop tuleap
```

Don't forget to restart services once the backup is done.

DATABASE BACKUP

Tuleap main database is tuleap, but additionnal databases can be used for plugins. To show them, use:

```
$ docker exec SQL_CONTAINER /usr/bin/mysql -u codendiadm -p -e "show databases;"
```

You can write a script to backup each database independently or use mysqldump to backup all databases:

```
# Backup
docker exec SQL_CONTAINER /usr/bin/mysqldump -u codendiadm -p --all-databases > sqldump_all_tuleap.sql

# Restore (use root user for an empty server)
cat sqldump_all_tuleap.sql | docker exec -i SQL_CONTAINER /usr/bin/mysql -u root -p
```

TULEAP DOCKER DATA PATHS

For a docker deployment, all data is stored in /data directory mapped from the container: backup all its content from the docker host.

Restore Tuleap

As only data were backed up, you first need a Tuleap server to restore them. It can be your old server or a new server you have just installed following the installation guide. Then you will need to:

- suspend all services
- restore databases (from a sqldump is the safest method to ensure compatibility between instances)

https://docs.tuleap.org/administration-guide/system-administration/backup.html#backup

Search docs

HOW-TO GUIDES

INSTALLATION GUIDE

□ ADMINISTRATION GUIDE

Users management

Projects management

Application management

DEPLOYMENT GUIDE

DEVELOPER GUIDE

USER GUIDE

20/05/2025, 12:25 Backup/Restore — Tuleap latest version documentation



WHAT IS TULEAP SOLUTIONS GET STARTED COMMUNITY RESOURCES BLOG

Restoration from RPM Deployment on RHEL/Alma/Rocky

UIDS/GIDS

If you plan to restore a backup from an RPM instance to a new one (RPM or Docker), its likely that linux user and group ids have changed in between.

First you need to identify the old ids from your backup archive or your old instance, looking for each of those files (that should be owned by):

- /etc/tuleap/conf/encryption_secret.key (codendiadm)
- /var/lib/gitolite/.gitolite/conf/gitolite.conf (gitolite)
- /var/lib/tuleap/ftp/pub (ftpadmin)

Example use of ls -ldn to display those ids

```
[root@tuleap ~]# ls -ldn /etc/tuleap/conf/encryption_secret.key /var/lib/gitolite/.gitolite/conf/gitolite.conf /var/lib/tuleap/ftp/pub
-r----- 1 980 980 64 Aug 16 2018 /etc/tuleap/conf/encryption_secret.key
-rw-rw---- 1 976 976 867 Dec 21 2020 /var/lib/gitolite/.gitolite/conf/gitolite.conf
drwxr-xr-x 22 979 978 4096 Oct 22 08:59 /var/lib/tuleap/ftp/pub
```

Then construct the maps from the 3rd (uid) and 4th (gid) columns and the associated owner name

- usermap: 980:codendiadm,976:gitolite,979:ftpadmin
- groupmap: 980:codendiadm,976:gitolite,978:ftpadmin

As you can see, for ftpadmin uids and gids are not the same in this example.

Migrate/Restore to Docker

If you plan to migrate RPM to docker, you must use the following numerical ids as the users won't be created on the docker host:

- codendiadm: 900
- gitolite: 902
- ftpadmin: 904

So the maps will be --usermap=980:900,976:902,979:904 and --groupmap=980:900,976:902,978:904 for a docker target in this exemple.

If you are only **restoring a docker** instance **onto a docker** instance, those ids should already be set and a **remap is not necessary**.

Remap uids with rsync

Finally you can use a tool like rsync to help you remap your data while restoring/resyncing:

```
rsync [OPTION...] --usermap=980:codendiadm,976:gitolite,979:ftpadmin \
                  --groupmap=980:codendiadm,976:gitolite,978:ftpadmin \
                  SRC... [DEST]
```

Moving Tuleap folders to an external disk

For the mentioned tuleap data paths, you could move them on a separate data disk for easier backup.

Like for the "Restore Tuleap" process decribed before, you need a running tuleap instance for the users/uids/gids to be created.

Then, after suspending all services including mysql (if you want mysql to be on a data disk too):

- move each directory to its new location, example: mv /etc/nginx /data/etc_nginx
- then at your convenience:
- create symbolic links for each directory, example: ln -s /data/etc_nginx /etc/nginx
- or use bind mounts through /etc/fstab like below (you need to mount them after updating the file)
- you can then restart services

Example of bind mounts via local fstab

```
/data/etc nginx /etc/nginx none bind,nofail 0 0
/data/etc_redis /etc/redis none bind,nofail 0 0
/data/etc tuleap /etc/tuleap none bind,nofail 0 0
/data/var_lib_gitolite /var/lib/gitolite none bind,nofail 0 0
/data/var_lib_mysql /var/lib/mysql none bind,nofail 0 0
/data/var_lib_tuleap /var/lib/tuleap none bind,nofail 0 0
```





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2/2