

## GNU/Linux Administration - Support #459

### How to Migrate GitLab Repositories to a New Server

09/21/2014 08:34 AM - Daniel Curtis

<b>Status:</b>	Closed	<b>Start date:</b>	09/21/2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Daniel Curtis	<b>% Done:</b>	100%
<b>Category:</b>	Source Code Management	<b>Estimated time:</b>	2.00 hours
<b>Target version:</b>		<b>Spent time:</b>	2.00 hours

#### Description

### Migrate Database

In this case, I'm using MySQL.

Use mysqldump to create dump of old database, then create a new database on the new server and import this:

1. On old:

```
mysqldump gitlab | gzip > gitlab.sql.gz
```

2. On new:

```
gunzip < gitlab.sql.gz | mysql gitlab
```

3. Run the db migrate command to make sure the schema is updated to the latest version.

```
sudo -u gitlab -H bundle exec rake db:migrate RAILS_ENV=production
```

### Migrate Repositories

- Rather than creating a new SSH key on the new server, copy over the old SSH key pair to the new server. Also copy of the authorized\_keys file.
- Set up gitolite on the new server using the old SSH key
- Copy contents of /home/git/.gitolite/keydir/ from old to new server so that users don't have to add their SSH keys again and change ownership to git:git.
- Copy repositories from old to new

```
sudo chmod -R ug+rwXs,o-rwx /home/git/repositories/  
sudo chown -R git:git /home/git/repositories/  
sudo -u gitlab -H bundle exec rake gitlab:gitolite:update_keys RAILS_ENV=production  
sudo -u gitlab -H bundle exec rake gitlab:gitolite:update_repos RAILS_ENV=production
```

- Update projects to use namespaces. This will move any projects that are in groups to a namespace. bundle exec rake gitlab:enable\_namespaces RAILS\_ENV=production
- I could not get this working, easier to remove all projects from groups on the old install before migrating.
- Run the rake:check command and see if it complains about anything. You may need to run the create\_satellites command or the run the script to update the hooks.

```
bundle exec rake gitlab:check RAILS_ENV=production  
sudo -u git -H /home/gitlab/lib/support/rewrite-hooks.sh
```

### Troubleshooting

- If you get

```
FATAL: split conf set, gl-conf not present for 'gitolite-admin'  
fatal: The remote end hung up unexpectedly
```

- Then you need to re-run the gitolite setup. This I think is because gitolite-admin is still in version 2 format.
- If you get

```
Error "cannot load such file - rb-inotify"
```

- Add gem "rb-inotify" to the bottom of the gemfile and run bundle install again.
- If you get

```
Error about invalid SSH keys
```

- Keep deleting the offending keys until the errors go away.

## Resources

- <http://lboynton.com/2013/01/29/how-to-migrate-gitlab-repositories-to-a-new-server/>

## History

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### #1 - 12/12/2014 09:51 AM - Daniel Curtis

- Status changed from *New* to *Resolved*
- % Done changed from 10 to 100

### #2 - 12/12/2014 10:07 AM - Daniel Curtis

- Description updated

### #3 - 12/12/2014 10:08 AM - Daniel Curtis

- Status changed from *Resolved* to *Closed*

### #4 - 02/15/2015 08:33 PM - Daniel Curtis

- Project changed from 98 to *GNU/Linux Administration*
- Category set to *Source Code Management*