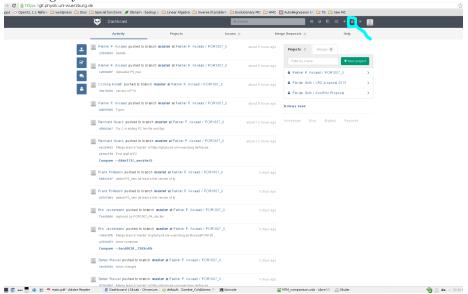
git Intro

Florian Goth

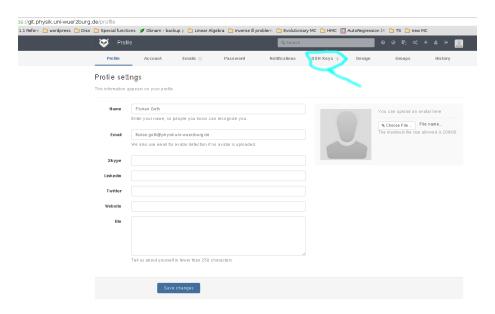
March 16, 2015

1 Setup Gitlab account

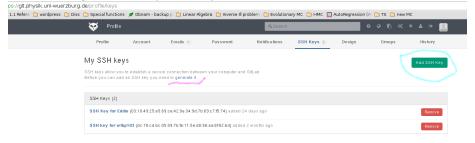
After login you will find this screen it is called the dashboard:



As a first step we need to insert the SSH keys from the devices that will be used to access the repositories. As a benefit this will enable password less authentiation. To that end we need to visit the user area. I have highlighted the button via this funny cyan box in the top right corner. After that we are in the user screen. Here we need to access the section for managing SSH keys. I have again highlighted the relevant button in cyan.



After clicking the SSH key button you are in this screen:



In this screen we can add an SSH key for every device that should be able to access the repository. Hints for the creation of an SSH key can be found at link marked in magenta. I have marked the button where you can upload an SSH key in cyan.

Once we have uploaded our keys we can start to checkout our project.

2 Some basic usage

The command is(the required path can be found on the overview page for a project):

git clone git@git.physik.uni-wuerzburg.de:fassaad/FOR1807_II.git

The most fundamental difference between git(or mercurial, bazaar) and tradtional version control systems is the fact that git is a *distributed* version control system. git has by design no notion of a central repository. The repository on your laptop is just as good as any other repository out there and could be used as reference by somebody else. Some basic commands are:

• git log

This gives your current log.

git status

This gives an overview of the status of your files, e.g., are they modified or unknown to git

• git add $\langle file \rangle$

This marks a file for addition in the next commit

• git commit < file >

This commits a file to YOUR repository. A space separated list of files is also possible

• git commit -a

This commits everything.

git pull

This brings in changes from a REMOTE working copy. By default it is the one you cloned from. In our case this is the gitlab site

git push

This pushes all YOUR changes to the REMOTE site.

Except for push and pull none of these commands require a network connection. A simple workflow within your working copy would now look like this:

• What have the others done?

git pull

- Work....
- Commit my work

git commit file1.tex file2.tex

• make it available to the others

git push

Good Luck.