Introduction to Git — Fall 2021

# Lecture B: Using Kebnekaise for the Git course

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Slides: https://hackmd.io/@hpc2n-git-2021/LB-kebnekaise#/

# Connecting to Kebnekaise

For this course we recommend using ThinLinc, but if you have your own installation of another SSH client that you prefer, you are welcome to use that.

- Download the client from https://www.cendio.com/thinlinc/download and install it.
- Start the client. Enter the name of the server: kebnekaise-tl.hpc2n.umu.se and then enter your own username.
- Go to "Options" -> "Security". Check that authentication method is set to password.
- Go to "Options" -> "Screen" and uncheck "Full screen mode".
- Enter your HPC2N password. Click "Connect".

More information here:
https://www.hpc2n.umu.se/documentation/guides/thinlinc

# Setting up Git

Git is already installed on Kebnekaise, but you need to set your name and email globals *unless you have already done this at some earlier time*.

- Open a terminal. In ThinLinc: Go to the menu at the top. Click "Applications" → "System Tools" → "MATE Terminal".
- Set your global name: `$ git config --global user.name "Your Name"`
- Set your global email: `$ git config --global user.email "yourname@example.com"`

You may also want to set your editor. We recommend vim, but other options are nano and emacs.

- `$ git config --global core.editor vim`

# Testing your configuration

Create an example folder and cd into that, then create a file test.txt:

```
$ mkdir <mydir>
$ cd <mydir>
$ touch test.txt
```

Now initialize a repository and add the new file:

```
$ git init
$ git add test.txt
```

Now *commit* the change. The editor which you configured earlier should open. Add an example commit message:

```
$ git commit test.txt
```

# Testing your configuration - continued

Now let us look at the log:

```
$ git log
```

When you do `git log`, you should see something like:

```
commit ff8b6f699d98c72d5cffc64d65a1c618b976b45a (HEAD -> master)
Author: Birgitte Brydsö <bbrydsoe@cs.umu.se>
Date:    Thu Sep 17 13:53:59 2020 +0200

    Test of git
```

but with name, email and commit message different.

If that is the case, your Git should be configured correctly.

# Download the course materials

For the individual hands-on part of the course, we have created some course materials which you will download from either the course website, the course GitHub, or the "important information" page.

- Course website:
  https://www.hpc2n.umu.se/events/courses/2021/git
- Course GitHub: https://github.com/hpc2n/course-intro-git
  - Click the green button labeled "Code" to get links to clone or download the materials.
- Download the material, then please go to the terminal window where you have downloaded and set up Git.
- Change the directory to wherever you wish to have the course material.
- Copy/transfer the tarball there (or download there directly with `wget <url-to-tarball>`)
- Unpack with `tar zxvf <tarball>`