Essential Skills. Lab 4

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1 Git server creating

1. Adding user and logging in as him

```
> sudo adduser git
> su git
```

2. Initiating git bare repository from git user

```
> mkdir ~/project && cd ~/project
> git --bare init
```

3. Exiting from git user
   ¿ exit

4. Go to /etc/passwd and block shell for that user

```
> sudo nano /etc/passwd
...
git:x:1002:1002:git,1,123321,12321,a:/home/git:/usr/bin/git-shell
...
```

2 History of git commands

1. git init - initiliazies new git repo on your local machine.

2. git stasdasdasd no cashanges added to commit (use "git add" and/or "git commit -a")

git clone - Clones remote repo to local one, where you can modify it.

```
git clone git@st9.os3.su:/home/git/project.git
```

git add - adds files from working dir to staging area for further commit

```
git add some_file.php
```

git checkout - undos git add, and frees index.
git commit - commits and fixes all from index on local repo

```
git commit -m "commit_message"
```

git push - pushes our new commits to remote repo.

```
git commit -m "commit_message"
```

3 Link with credintials

```
git clone ssh://git@st9.os3.su:1022/home/git/project.git
password: git
```

4 Commands to compile

```
make
make clean # to remove all temp files.
```

5 Makefile

```
filename=main
pdf:
    pdflatex ${filename}
clean:
    rm -f *.ps *.aux *.toc *.bbl *.blg *.log
```

Main latex file

```
\documentclass[10pt]{article}
%   | ,
\usepackage{ucs}
\usepackage[a4paper, total={6in, 10in}]{geometry}
\usepackage{listings}
\usepackage[utf8x]{inputenc } %   UTF8
\usepackage{graphicx}
\title{Essential Skills. Lab 4}
\date{25 September 2016}
\author{Ali Abdulmadzhidov, Oleg Ilin, Timur Samigullin}

\begin{document}
\renewcommand*\rmdefault{cmss}
\maketitle

\tableofcontents
\newpage

\input{ali/main}
\newpage
\input{oleg/main}
\newpage
\input{timur/main}
\end{document}
```

My latex file ali/main.tex

```
\section{Starting with git and github}
\textbf{Git} \cite{git} is version control system created by \textit{Linus} Torvalds in 2005 for de
Github \cite{github} (figure \ref{logo}) is webbased git repository storage.
\begin{figure}[ht!]
\centering
\includegraphics[width=90mm]{ali/github-logo.jpg}
\caption{Github logo \label{logo}}
\end{figure}
\begin{enumerate}
    \item Firstly you need to install it
```

```
    \begin{verbatim}
        apt install git
    end{verbatim}
    \item Setup your credintials
    \begin{verbatim}
        git config --global user.name "Ali Abdulmadzhidov"
        git config --global user.email "a.abdulmadzhidov@innopolis.ru"
    end{verbatim}
    \item Now you can init new...
    \begin{verbatim}
        mkdir project
        git init
    end{verbatim}
    \item Now you can init new...
    \begin{verbatim}
        mkdir project
        git init
    end{verbatim}
    \item ...or clone exisitng one \cite{swipecards}
    \begin{verbatim}
        git clone https://github.com/Diolor/Swipecards.git
    end{verbatim}
    \item You can look to repo's status with
    \begin{verbatim}
        git status
    end{verbatim}
    \item And watch all modifications in files with
    \begin{verbatim}
        git diff
    end{verbatim}
    \item You can add edited files to index with
    \begin{verbatim}
        git add <filename>
    end{verbatim}
    \item and commit them
    \begin{verbatim}
        git commit -m <message>
    end{verbatim}
    \item Push modifications to remote repo
    \begin{verbatim}
        git push origin <branch>
    end{verbatim}
    \item Pull modifications from remote repo
    \begin{verbatim}
        git pull
    end{verbatim}

\end{enumerate}

\medskip

\begin{thebibliography}{9}
\bibitem{git}
https://ru.wikipedia.org/wiki/Git

\bibitem{github}
https://github.com/

\bibitem{swipecards}
https://github.com/Diolor/Swipecards
```

\end{thebibliography}