VE482 Lab 3

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1 Simple git

• Search what is git

Git is a fast, scalable, distributed revision control system with an unusually rich command set that provides both high-level operations and full access to internals.

- Install a git client.
 - apt-get install git
- Search the use of the following git commands:
 - help Display help information about Git.
 - init Create an empty Git repository or reinitialize an existing one.
 - checkout Switch branches or restore working tree files.
 - branch List, create, or delete branches.
 - push Update remote refs along with associated objects.
 - pull Fetch from and integrate with another repository or a local branch.
 - merge Join two or more development histories together.
 - add Add file contents to the index.
 - diff Show changes between commits, commit and working tree, etc.
 - tag Create, list, delete or verify a tag object signed with GPG.
 - log Show commit logs.
 - fetch Download objects and refs from another repository.
 - commit Record changes to the repository.
 - clone Clone a repository into a new directory.
 - reset Reset current HEAD to the specified state.
- Setup your git repository on the VE482 server.
 - git remote add ve482 git@ve482:515370910207/p1
 - git push ve482

2 Git game

3 Working with source code

3.1 The rsync command

- In Minix 3 install the rsync software
 - pkgin install rsync
- - apt-get install rsync
- Read rsync manpage
 - 1 man rsync
- Create an exact copy of the directory /usr/src into the directory /usr/src_orig
 - cp -r /usr/src /usr/src_orig
- If you have altered Minix 3 source code during homework 2 remove your changes from /usr/src_orig
- Create an exact copy of the Minix 3 directory /usr/src_orig into your Linux system, using rsync and ssh (note that the ssh server must be activated under Linux)
 - rsync -avz minix:/usr/src_orig/ ~/minix

3.2 The diff and patch commands

- Read the manpages of diff and patch
 - nan diff
 - 2 man patch
- Using the diff command, create a patch corresponding to your changes in homework 2