

Laboratory work Nr. 2

This task is more complex than the 1st one and requires reading and experimentation:

Repository creation, adding files into repository

1. Install all the required packages to make possible creation and operation of local repositories.
2. Configure git so it is possible to push and pull files to/from your repository.
3. Create a server_side/gitrepo folder in your open source operating system.
4. Using git create a new repository inside your server_side/gitrepo folder.
5. With the same user create client_side/gitrepo folder and initiate it.
6. Create new file `text.txt` in client_side/gitrepo folder with contents:
Text file created by first user.
7. Now add that file to local repo, commit and push it (hint: before you can communicate with your server_side/gitrepo repository, you need to configure connection with git remote add...)

Getting files from repository, making changes

8. Create another folder client2_side/gitrepo and initiate it with git.
9. Configure connection to server_side/gitrepo with git remote add command.
10. Pull all the changes from your repository and check that you got the file `text.txt` in your client2_side/gitrepo folder.
11. Now edit the received file and add one more line so it contents looks like:
Text file created by first user.
Line added by second user.
12. Now commit the changes and push the file back to repository.

Conflict resolving

13. From folder client_side/gitrepo pull the changes and check if the file was modified.
14. Now modify the file in both folders (client_side/gitrepo and client2_side/gitrepo) by adding text so file contents look like (client_side/gitrepo):
Text file created by first user.
Line added by second user.
Line added by first user.
(client2_side/gitrepo):
Text file created by first user.
Line added by second user.
Another line added by second user.
15. Now commit and push changes from client_side/gitrepo and then from client2_side/gitrepo.
(You should get a conflict message during the second part)
16. Fix the conflict (from client2_side/gitrepo) by editing the text.txt file, commit and push the changes.
17. Pull the changes from client_side/gitrepo and make sure the file contents are the same on in both folders.