Praveen Kumar B.V, Eksfmc15

Open Source Software for Science, Business and Management.

Repository creation, adding files into repository:

I used this comment to create new repository

Taken from: https://github.com/praveen/kumar

echo "# praveenkuamr" >> README.md git init

git add README.md

git commit -m "first commit"

git remote add origin https://github.com/praveen/kumar.git git push -u origin master

First, I install Git on both machines. I can install Git from the packages already available via the repos or your distros, or you can do it manually.

sudo apt-get install git-core

Then add a user for Git.

sudo useradd git

passwd git

In order to ease access to the server let's set-up a password-less ssh login. First create ssh keys on your local machine:

ssh-keygen -t rsa

It will ask you to provide the location for storing the key, just hit Enter to use the default location. The second question will be to provide it with a pass phrase which will be needed to access the remote server.

It generates two keys - a public key and a private key. Note down the location of the public key which you will need in the next step.

Now i have to copy these keys to the server so that the two machines can talk to each other. Run the following command on your local machine:

cat ~/.ssh/id\_rsa.pub | ssh  [git@remote-server](mailto:git@remote-server) "mkdir -p ~/.ssh && cat

* ~/.ssh/authorized\_keys"

Now ssh into the server and create a project directory for Git. You can use the desired path for the repo.

[git@server:~](mailto:git@server:~) $ mkdir -p /home/praveen/project-1.git

Then change to this directory:

cd /home/praveen/project-1.git

Then create an empty repo:

git init --bare

Initialized empty Git repository in /home/praveen/project-1.git

We now need to create a Git repo on the local machine.

mkdir -p /home/praveen/git/project

And change to this directory:

 cd /home/praveen/git/project

Now create the files that you need for the project in this directory. Stay in this directory and initiate git:

git init

Initialized empty Git repository in /home/praveen/git/project

Now add files to the repo:

 git add .

Add a file or make changes you have to run the add command above. You also need to write a commit message with every change in a file. The commit message basically tells what changes were made.

git commit -m "message" -a

[master (root-commit) 57331ee] message 2 files changed, 2 insertions(+) create mode 100644 GoT.txt

create mode 100644 writing.txt

An example:

git commit -m "message" praveen.txt [master e517b10] message

1 file changed, 1 insertion(+)

Until now we have been working on the local server. Now we have to push these changes to the server so the work is accessible over the Internet and you can collaborate with other team members.

git remote add origin ssh://git@remote-server/repo-<wbr< a="">>path-on -server..git

Now you can push or pull changes between the server and local machine using the 'push' or 'pull' option:

git push origin master

If there are other team members who want to work with the project they need to clone the repo on the server to their local machine:

 git clone git@remote-server:/home/praveen/project.git

Here */home/praveenl/project.git* is the project path on the remote server, exchange the values for your own server.

Then change directory on the local machine (exchange *project* with the name of project on your server):

 cd /project

Now they can edit files, write commit change messages and then push them to the server:

git commit -m 'corrections in praveen.txt story' -a

And then push changes:

git push origin master