Now let's see how we can mirror the GIT projects between these 2 servers.

**Step 1:** Connected my laptop to my office LAN connection.

**Step 2:** Created a local folder and navigate to that using Git bash console

**Step 3:** Cloned the main Git server repository using clone command

git clone --mirror

<http://mainserver:8080/tfs/project1/_git/Experiment>

**Step 4:** Cd to the cloned repository root path

**Step 5:** Check the available branches in the cloned repository using “git branch –a” command

**Step 6:** Disconnect from your office network and connect to wifi/dongle internet access

**Step 7:** Next updated the Push URL to the Mirror Git server

git remote set-url --push origin

<https://mirrorserver:8080/tfs/project1/git/Experiment>

**Step 8:** Validate the fetch and push origin URL’s, in our case, it looks like below

origin <http://mainserver:8080/tfs/project1/_git/Experiment> (fetch)

origin <https://mirrorserver:8080/tfs/project1/git/Experiment> (push)

**Step 9:** Now Git Push the locally cloned main Git server repository to Mirror git server repository

**Result**

All the branches with history, tags are synchronized from your main Git server to mirror Git Server.

**Step 10:** So whenever changes happened in the main server just execute the fetch command as below in your local workspace by connecting to your office LAN connection

Git fetch –p origin

This will fetch all the changes in your main Git server repo to your local workspace

**Step 11:** Then switch to the secondary server network and use the push command to sync the changes to the mirror server as below

Git push –mirror

All the latest changes will be now synchronized with the mirror GIT server.