

Jenkins, Git and GitHub (Continued)

What is **GitHub**?

GitHub is one of the source code management systems.

Steps to upload the local code to GitHub:

1. Create a new folder in your local machine
2. Create any folder with your desired project name in the above created folder
3. Launch git-bash inside the project folder and run 'git init' command
4. Copy the local code folders into the above created project folder
5. In gitbash, execute git status command
6. Execute git add . command
7. Execute git status
8. Execute git commit -m "first commit"
9. Execute git remote add origin sshurl
10. Generate ssh key by executing the command 'ssh-keygen -t rsa -b 4096 -C "arun.motoori@gmail.com"
11. Add the generated key to github account
12. Execute ssh -T git@github.com to verify the establishment of connection between your local machine and github
13. Execute git push origin master and refresh the GitHub repository to see the reflected code

Steps to execute code from github:

1. Do some modification say adding a small comment in one of the files and push the changes from local machine to github repository
 2. Install Maven Integration plugin, create a new Maven Project in Jenkins and configure it to 'git', Provide Repository URL, mention clean compile install and set Post build actions to TestNG reports and Build the project
 3. Intentionally fail the test by modifying the CRM locator option in HomePage.java and push the code to GitHub and Build it using Jenkins
 4. Revert back the faulty code by fixing the mistake in HomePage.java and push the code to GitHub and build it using Jenkins
-