**Working with Git**

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal

// Initializing this folder as a Git repository

$ **git init**

Initialized empty Git repository in C:/Users/vikasjos/eclipse-workspace/NCCMPatchGeneratorFinal/.git/

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Checking the current status

$ **git status**

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

build.gradle

log4j.properties

nccmPatchGenerator.log

src/

nothing added to commit but untracked files present (use "git add" to track)

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Adding everything to git

$ **git add .**

warning: LF will be replaced by CRLF in .gitignore.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in log4j.properties.

The file will have its original line endings in your working directory.

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

$ **git status**

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: .gitignore

new file: build.gradle

new file: log4j.properties

new file: nccmPatchGenerator.log

new file: src/com/cisco/nccm/patch/generator/PatchGeneratorMain.java

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// this commit will not commit to any remote repository, its just a local commit

$ **git commit -m "initial commit for patch generator"**

[master (root-commit) 616b8fb] initial commit for patch generator

5 files changed, 258 insertions(+)

create mode 100644 .gitignore

create mode 100644 build.gradle

create mode 100644 log4j.properties

create mode 100644 nccmPatchGenerator.log

create mode 100644 src/com/cisco/nccm/patch/generator/PatchGeneratorMain.java

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Trying to view any available remote repository

$ **git remote -v**

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Adding remote repository, before that we need to create a new repository for this project in GitHub

$ **git remote add pg https://github.com/joshivikash/patchGenerator.git**

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Again trying to view the available remote repositories for this project

$ **git remote -v**

pg https://github.com/joshivikash/patchGenerator.git (fetch)

pg https://github.com/joshivikash/patchGenerator.git (push)

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Trying to pull latest data from remote repository. (same as **svn update**)

$ **git fetch pg**

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// Viewing existing remote repositories

$ **git remote**

pg

vikasjos@VIKASJOS-JA3H9 MINGW64 ~/eclipse-workspace/NCCMPatchGeneratorFinal (master)

// committing to remote repository

$ **git push pg master**

Counting objects: 13, done.

Delta compression using up to 8 threads.

Compressing objects: 100% (7/7), done.

Writing objects: 100% (13/13), 3.45 KiB | 884.00 KiB/s, done.

Total 13 (delta 0), reused 0 (delta 0)

To https://github.com/joshivikash/patchGenerator.git

\* [new branch] master -> master

//reverting changes

git rm –cached <filename>

// deleting from remote repo

git rm -f <filename>

git commit –m “your reason to delete”

git push <remote\_repo\_short\_name> <branch>

// getting changes of a revision (say R2) as a patch. Note let R1 be the revision just before R2

git log –p <R1-checksum>..<R2-checksum>

// getting the diff of modified files that are not yet committed

git diff <filename>