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# GIT Commands For Commit

**1.** Check status, this will tell which files are having changes.

> git status

**2.** You can also **check differences** with “diff” command, this will tell you changes files wise and line wise as well,

> git diff

**3.** To know the **current and remote branches**.

> git branch -a

4. Save the file in temporory area as we have to take updated files from remote origin e.g storeplace\_head

> git stash

5. Then do git pull to take updated files from server.

> git pull

6. Then again retain the changed files, Which will list again all the changed files of local.

> git stash pop

**7.**  Now it is time to **add files** to the STAGING AREA . To ADD file which is having differences(changes to be committed) to STAGING AREA use

> git add <FILE\_PATH>

Ex.

> git add src/com/whizpay/merchportal/dashboard/sales/dao/SalesDAOImpl.java

use \* if you have no of files to add

Ex.

> git add \*

**8.** Now as you have added files to STAGING AREA, check status.

> git status

**9** Now **commit** your files to your local branch/checkout by using “git commit -m”. Give brief description with commit. Use following convention for message,

“<JIRA ID> Short description.”

> git commit -m “brief description”

Ex.

> git commit -m “WHIZPMO-001 demo file commit”

**10.** As you have committed your files to local branch/checkout, **verify** using it “status” command.

> git status

**11.** Now you need to merge your changes to head branch, first you need to synchronize your local “head” branch to repository, for that you need to **switch your branch**, To switch your branch use,

> git checkout <branch\_name>

Ex.

> git checkout project\_head

NOTE : Here project\_head is the head branch on your local repository.

**12.** You are on your head branch, so to take **updates** of repository to your local “head” branch use,

>git pull origin <head\_branch\_name>

> git pull origin project\_head

**13.** Your local head branch is now up to date, so you can **merge** your checkout( in which your changes are locally committed).

> git merge <your\_branch\_name>

Ex.

> git merge WHIZPMO-001

**5.** Your local head branch is now having changes committed by you. So we need to **push** this committed changes repository also, for that use “push” command,

> git push **origin** project\_head

NOTE : notice here we are pushing changes to repository, if you do not push your changes to repository then your changes will remain in your local head branch only.

**6.** Check status,

> git status

**7.** You can use “log” command to get the **log** of activities with **hashcode**. This hashcode you can use to track your changes/commitsand to mention in file commit email so that everyone can keep track of the commits.

> git log

“oneline” option of log command will give **brief information** of commits, so we can also use,

> git log --online

**8.** To get the **name** of each file committed we can use

> git show --pretty="" --name-only bd61ad98

NOTE : "bd61ad98" is the short HASH obtained by “--oneline” option of log command.

# GIT Save local branch files and then switch to another branch.

**1. C**reate one branch e.g BRANCH\_A

> git branch BRANCH\_A origin/storeplace\_head

**2.**  git status

**3.** Change one file then again execute git status

> git status

On branch BRANCH\_A

Your branch is up-to-date with 'origin/storeplace\_head'.

Changes not staged for commit:

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

(use "git checkout -- <file>..." to discard changes in working directory)

modified: src/com/whizpay/merchportal/login/dao/MerchantLoginDAOImpl.java

**4.** Create another branch and switch to it, but if you want to save changes of BRANCH\_A before switiching then execute

> git stash

**5.** Now switch to another branch BRANCH\_B, if all the changes done of branch\_B and again you want to swith to BRANCH\_A for some work, then again switch to BRANCH\_A

> git checkout BRANCH\_A

Switched to branch 'BRANCH\_A'

Your branch is up-to-date with 'origin/storeplace\_head'.

**6.** Now you need the saved file changes,which you stash before then execute

> git stash pop

On branch BRANCH\_A

Your branch is up-to-date with 'origin/storeplace\_head'.

Changes not staged for commit:

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

(use "git checkout -- <file>..." to discard changes in working directory)

modified: src/com/whizpay/merchportal/login/dao/MerchantLoginDAOImpl.java

no changes added to commit (use "git add" and/or "git commit -a")

# GIT Commit Log History Commands

1. To see the commit logs as per Author

> git log –author='\(Adam\)\|\(Jon\)'

2. To see the files of perticular commit hash.

> git show 4fb1930eef52d79adc4afcd887bfc539f5293563

3. To see the logs of commit of perticular branch

> git log storeplace\_head --oneline

4. To see the logs of commit Datewise

> git log --pretty=format:"%h - %an, %ar : %s"

5. List all commits for a specific file

> git log --follow src/com/whizpay/merchportal/report/dao/ReportDAOImpl.java

> git log --follow filenamegit diff --name-status origin/master

6. List all commits (across all branches) for a given file

git log --graph --all -- <filename>