GIT != GITHUB

**GIT:**

* A Distributed Version Control System.
* To check or track changes in files and folders.
* To collaborate in teams.
* Helps in merging the code.

**GITHUB**:

* A website to upload your local repositories to server repositories.
* Provides Backup
* provides Visual Interface to your repositories.
* Makes collaboration easier.

**Version Control System:**

1. Centralized VCS
2. Distributed VCS

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git config --global user.email gunwani.madhu@gmail.com

git config --global user.name mgunwani

**1**. **Initialize Local Git Repository: (Only Once)**

git init

**2**. **To check status of tracked/untracked files and folders:**

git status

**3. To track files and folders for staging:**

git add .

**4. To check status for files and folders which are ready to commit:**

git status

**5. To commit tracked files and folders:**

git commit -m "First Commit"

**6. Add Origin to push your recent commit to server repository: (Only Once)**

git remote add origin https://github.com/mgunwani/Dell-DotNet-Phase-Projects.git

**7. Push Commits to Remote Origin:**

git push -u origin master

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* **Branching and Merging:**

1. What are branches?

2. How to create new Branch?

3. How to checkout to branch?

4. How to merge branch to master?

5. How to delete branch(locally and remotely)?

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**1. To see the list of branches:**

git branch

**2. Create New Branch:**

git branch MyFirstBranch

**3. Checkout to MyFirstBranch:**

git checkout MyFirstBranch

**4. Add Some Content Local Repository and Push Changes to MyFirstBranch:**

git status

git add .

git status

git commit -m "First Commit to MyFirstBranch"

git push -u origin MyFirstBranch

5. Verify the Branch on Server Repository

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* **Merging MyFirstBranch to master Brach:**

**1. Checkout to master branch or destination branch:**

git checkout master

**2. Verify the current checkedout branch i.e. master branch:**

git branch

**3. Merge MyFirstBranch to master branch:**

git merge MyFirstBranch

**4. Push Changes to master branch:**

git push -u origin master

**5. Verify to get below message on MyFirstBranch:**

This branch is even with master.

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**1. To get the list of branches at local:**

git branch

**2. To get the list of branches at remote:**

git branch -r

**3. To get the list of branches at local and remote:**

git branch -a

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**1. To delete branch from Local Repository:**

git branch -d MyFirstBranch

**2. To delete branch from Remote Repository:**

git push origin --delete MyFirstBranch

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**1. Clonning Repository from Server to Local:**

* git clone https://github.com/mgunwani/Dell-DotNet-Phase-Projects.git

**2. Pulling Changes to Clonned Project:**

* Go To Clonned Project Folder:
* git pull

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* git fetch
* git diff origin/master
* git merge