Centralized VCS -> SVN, TFS (Azure dev oops -distributed (Microsoft)) - we cannot have all version on the local machine

Distributed VCS -> Git (LOCAL AND CENTRAL BOTH HAVE ALL VERSIONS OF THE DATA)

1. Tracks history

2. Free and Open source

3. We can have branches

4. Nonlinear development

5. Backup

6. Branching is easier

7. Supports collaboration

Features of GitHub

1. Easy Project Management
2. Increased safety with packages
3. Effective Team Management
4. Improved Code writing
5. Increase Code safety –CL command
6. Easy Code hosting – each repository has their own tools for release

Competitors –

1. BitBucket
2. FogBuzz
3. Surround SCM
4. GitLab
5. Buddy
6. Bean stalk

Difference between Git & Git Hub

|  |  |
| --- | --- |
| Client | Server |
| Used to create files, commit the changes | Store the changes in repo on server |
| Access the changes | Hosts the changes |
| Can make do without internet | To access the hosted changes internet connection is needed |

Miscellaneous Command:

Delete dir -> rm –rf dirname

Create dir -> mkdir dirname

Point to dir -> cd dirname

Hard merge -> git pull origin master –allow-unrelated-histories

Delete the origin url -> git remote rm origin

To generate ssh privatekey -> ssh-keygen -t rsa -C lavanyaseshu.lg@gmail.com

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