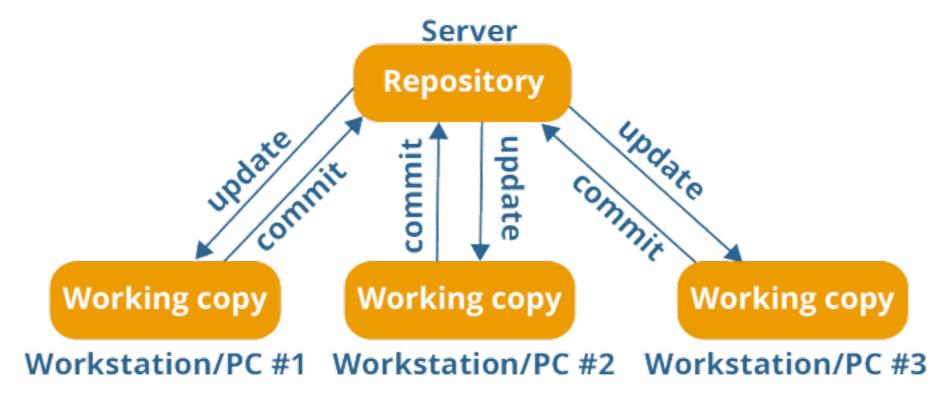


GIT & GITHub: What is GIT

- ➤ GIT is free, open source version control system.
- Version Control System VCS helps a software team manage changes to source code over time.
- ➤ Version control software keeps track of every modification to the code in a special kind of database.
- ➤ VCS System helps team to rollback to previous version in case of any issue with specific Version.
- Need of Version Control System.

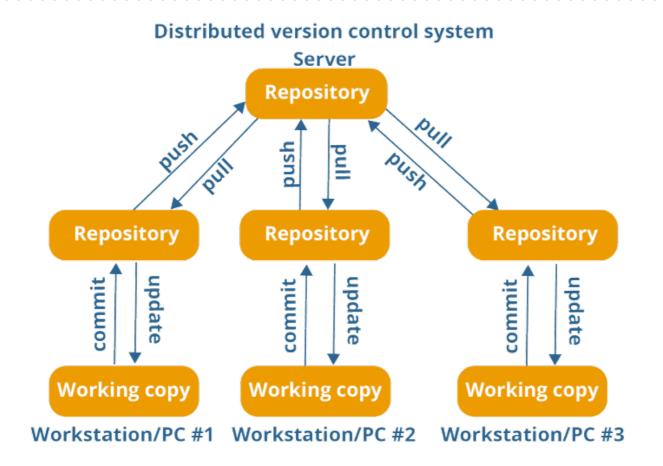
- ➤ Types of VCS
- Centralized Version Control System (CVCS)
- ➤ Distributed Version Control System (DVCS)
- ➤ Centralized VCS CVCS uses a central server to store all files and enables team collaboration.
- ➤ CVCS works on a single repository to which users can directly access a central server.

#### Centralized version control system



- ➤ Here Each Work Station is connect with Central Code Repository.
- ➤ Drawbacks It is not locally available.
- Crash of CVCS will result in losing the entire data of the project.

- Distributed Version Control System-
- ➤ In Distributed VCS, every contributor has a local copy or "clone" of the main repository.
- ➤ User can change and commit local Repo without any interference.
- ➤ User can update their local Repo from the Central Server.
- ➤ User can update the Central Server from their Repo.



- ➤ Operations in DVCS are fast.
- New changes can be done locally without manipulating the central data.
- ➤ If the central server gets crashed at any point of time, the lost data can be easily recovered from any one of the contributor's local repositories.

- ➤ Types of VCS
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# Will see you in Next Lecture...

