Git “Global Information Tracker” Agenda

1. What is git
2. Git introduction
3. Git Commands with example
4. GitHub basics
5. GitHub workflow
6. Git bash
7. GitHub repository
8. Gitlab ci/cd pipeline
9. Git branching and stashing
10. Git merge
11. Git rebases
12. Git merge vs git rebase
13. Jenkins git integration
14. Webhooks in Jenkins
15. What is GitOps?

What is git. What is version control?

Version control systems are software that help track changes make in code over time.

Types of version control system

1. **Local VCS: -** a type of version control system (VCS) that stores file changes in a local database on a single computer

Drawback

Limited collaboration: LVCSs are only useful for a single developer at a time, so they aren't ideal for larger projects that require collaboration.

Data loss: If the local database is lost, all the patches and versions are lost.

Limited offline access: If the computer is offline, no one can work on the code or push changes.

1. **Centralized VCS: -** A single server stores all versions of files, which can be accessed remotely by multiple users.

Drawback

if the remote server goes down, no one can work on the code.

1. Distribute VCS:- this one of the file send to feature branch to using developed