**Devops Tools:**

**1.Git:**

**Git is a distributed version control system that is used for tracking changes in source code and coordinating work among multiple people working on the same project**. It was created by Linus Torvalds in 2005 as a tool to manage the development of the Linux operating system, but it has since become one of the most popular version control systems in the world.

**Git allows multiple people to work on the same codebase simultaneously and helps to prevent conflicts between different versions of the code. It allows users to create different branches of the code,** which can be used for experimenting with new features or fixing bugs without affecting the main codebase.

**Git is widely used in software development, but it can also be used for other types of projects where collaboration is needed**. It is often used in conjunction with other tools such as GitHub, Bitbucket, or GitLab, which provide a platform for hosting and sharing code repositories. (it is explained about git)

1. **git init**: Initializes a new Git repository.
2. **git clone**: Creates a copy of a remote Git repository on your local machine.
3. **git add**: Adds files to the staging area.
4. **git commit**: Saves changes to the local repository.
5. **git push**: Uploads changes to a remote repository.
6. **git pull**: Downloads changes from a remote repository and merges them into the local branch.
7. **git status**: Displays the status of the working directory and staging area.
8. **git branch**: Lists, creates, or deletes branches.
9. **git checkout**: Switches to a different branch or commit.
10. **git merge**: Merges changes from one branch into another.
11. **git log**: Displays a history of commits.
12. **git diff**: Shows differences between two commits, the working directory and the staging area, or other combinations of these.
13. **git stash**: Temporarily stores changes that are not ready to be committed.
14. **git remote**: Manages connections to remote repositories.
15. **git config**: Sets configuration options for Git.

These are just a few examples of the many Git commands available. For more information, you can use the **git help** command or visit the official Git documentation.

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