Let's start DevOps automation with the version Control system. To learn the concept of Version Control System. let's take Real World Example. There are 4 coders they are known to code websites. If 4 coders start independently the website comes with 4 different styles and designs.

Instead of that they meet and diced 1 Leader and 3 supporters. First coder codes main module and Design and distribute 3 tasks. If 3 tasks are independent, then it works good. But, there is a task which depends on each other than 2nd coder codes and gives to the leader. Then Leader gives code to 3rd coder and 4th coder and also give a change to 2nd coder. When they come with their work done there might be conflict. See the video it can clarify more.

After knowing of All git Command, Let’s Understand Company work flow which will help us to develop project. 5 Type of branch available on any project Master, Develop, Feature, Release, Hotfix. Master and Develop is lifelong Branches.

Master- It is main branch with Real code

Develop- It is main developing branch

Feature- It branch come from Develop for adding new feature

Release – It is developed code before last check to release

Hotfix – If there is some urgent problem to solve then this branch will helpful

Let try to understand with simple project

Task - Develop a project with 2 feature without any problem.

All project with master branch. To start develop project pull this project in Develop branch. After start developing a project there adding is 2 features in the project so make a two more branch feature1 and feature2. This branch comes from develop branch. When the feature code is developing then it merges with develop branch. Code is near about to completed so release code goes for a last check for release branch. There a one urgent problem is a code so it goes to Hotfix branch. In a hotfix branch problem solve as fast as possible. Then it once again in to release branch.it there is no problem then it goes to the master branch.

Hotfix

Release

Feature2

Feature1

Develop

Master

Project start

1st Commit from Develop

Commit for feature 1

Commit for feature 2

Feature 1 added

Feature 2 added

Time

Project for last check

Urgent problem

Project Released

Project for last check

https://nvie.com/posts/a-successful-git-branching-model/