

# Git and GitHub Training

Duration : 3 Days

Chapter	Point of focus	Contents
1	Git Introduction and Basics	
		Overview of version control systems
		History of git
		Overview of git
		Difference between GitHub, Bitbucket, and GitLab
		Overview of Git Configuration Level
		Installation of git and git core
		Overview of Basic Git Commands
		Lab:
2	Git Important with Hands-on	Creating a Git local repository
		Git workflow for source control
		Lab:
		Tracking file changes
		Reverting to earlier commits
		Working directory practices with git add, remove and checkout
		Lab:
		Undoing things in git
		Git with deletion of files in directory
		Lab:
		.gitignore usage
		Renaming files in git
		Lab:
3	Remote repositories with GitHub	Introduction to GitHub
		Account creation and account types
		Pulling commits from GitHub
		Overview of fork and pull
		Lab:
		Local and global repository
		Multiple commits in git
		Lab:
		Merging file changes in git
		Lab:

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		Lab:
		Issue tracking in GitHub
		Lab:
4	Branching, Merging, and Rebasing in Git	Branching in git
		Lab:
		Switch between the branches
		Lab:
		Merging branches in Git
		Lab:
		Fast forward and recursive change
		Lab:
5	Parallel Development and Conflicts Management	Concept of conflicts
		Resolving merge conflicts in git
		Lab:
		Stashing in git
		Rebasing in git
		Lab:
		Standard practice for handling conflicts
6	GitHub Issues , Labels, Milestones	What is Issues , Labels and Milestones in Git Hub
		How to create Issues?
		Lab
		Using Labels and Assigning Milestones
		Multiple contributors to projects and commenting on issues to achieve milestones
		Lab
7	Bitbucket and GitLab	What is Bitbucket?
		Importing repository to Bitbucket from GitHub

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		Lab:
		Lab
		Bitbucket repository with Git
		Review of code in Bitbucket
		Multi Branching with BitBucket Cloud
		Lab
		Undo Changes in Git Using Bitbucket Cloud
		Introduction to GitLab
		GitLab Basics
		Lab