

Version Control Using GIT (2 Days)

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Pre Requisites

Knowledge of O/S

Application packaging and deployment

Lab Setup Info

GIT

Visual Studio Code

User Account in GITHUB website

Course Contents

- **GIT** - Version Control Tool – GIT Git Repository
 - Creating a Git Repository
 - Git Workflow
 - Tracking File Changes
 - Files or directory add to stage * Reset from stage
 - Ignoring Files in Git
 - Commit to Repository
 - Reverting to Earlier Commits * Deleting Files in Git
- **GitHub – Cloud Repository**
 - Creating a Repository in GitHub
 - Creating a Repository in GitHub Using SSH
 - Pulling Commits from GitHub
 - Collaborating between Local and Remote Repository * Push local Repository to GitHub or remote Repository * Merging File Changes in Git
 - Issue Tracking in GitHub

- **Getting Started**

- Getting Started With BitBucket
- Creating an Account
- Configuring Two-step Verification
- Creating a Repository
- Creating a Snippet
- Using the BitBucket User Interface

- **Basic Commands Overview**

- Starting with a Fresh Project (git init)
- Adding Git to an Existing Project (git init)
- Starting on GitHub by Joining an Existing Project (git clone)
- Basic Git Workflow (add, commit, pull & push)
- Tracked Files
- Editing Files
- Recursive Add
- Backing Out Changes
- Renaming and Moving Files
- Deleting Files
- History
- Git Alias
- Ignoring Unwanted Files and Folders
- Cleanup and Back to Origin (GitHub)
- Git Basics Resources

- Cloning GIT

- Overview on Visual Merge and PF Merge

- **BRANCHING AND MERGING**

- Branching Basics
- Happy Path / Fast Forward Merges
- Happy Path / Disable Fast Forward Merges
- Automatic Merges
- Conflicting Merges and Resolution
- Section Cleanup and Push back to GitHub

- **REBASE**

- Simple Rebase Example
- Setup for rebasing conflict
- Abort a Rebase
- Rebase Conflict and Resolution
- Pull with Rebase (GitHub)
- Section Cleanup and push to GitHub

- **STAGING**

- Simple Stash Example
- Stashing Untracked Files and Using Pop
- Managing Multiple Stashes
- Stashing into a Branch
- Section Cleanup and push to GitHub
- Stashing Section Resources