

Introduction To GIT

Course 110 – 24 Hours

Overview

Effective use of version control is an important and useful skill for any developer working on long-lived (or even medium-lived) projects, especially if more than one developer is involved and we have more than one development site. This course will cover the basics through advanced topic of using GIT version control.

Course Objectives

Upon completion of this training you should have a good working knowledge of GIT, from installing the system, using simple commands and completing a complex tasks on multi-site development process.

Who Should Attend

Anyone who wants to use GIT to manage version control

Prerequisites

No

DAY 1

Introduction

- Overview
- Version Control
- Version Control Systems
- GIT overview and advantages

Installing

- Requirements
- Install from source
- Installation options

Setup

- First time setup
- Testing our work

DAY 2

GIT repositories

- Overview
- Creating a repository
- Cloning an existing repository
- Managing files
- Managing modified files
- Tagging

GIT branching

- Overview
- Merging code
- Handling conflicts
- Branch management
- Branches types (local/long running/topic/remote)
- Pushing
- Rebasing

DAY 3

GIT on the Server

- Overview
- Protocols – overview and usage
 - Local
 - SSH
 - GIL
 - HTTP

Distributed GIT

Overview
Distributed workflows
Multi sites
Managing the project
GIT tools