

Atlassian BitBucket Introductory Workshop (SE310)

8 Hours

Outline

The purpose of this workshop is to introduce the students to git the leading open source distributed version control system and to Atlassian Stash the git repository management application. In the first part of the course the participants will learn the basic git concepts and workflows. In the second part they will learn how to work with BitBucket for effective git collaboration and code management.

Target Audience

Software professionals starting to work with Git and Atlassian ALM tools suite.

Prerequisites

Basics experience building and running Docker containers Basics Docker CLI knowledge. Docker for (Mac/Windows) will have to be installed during the workshop if working with windows or MacOs. Prior experience in developing web applications will be helpful but is not required.

Contents

Introduction

- Introduction to Git
- Introduction to BitBucket
- Users and permission levels

Concept

- Git Concepts:
 - Distributed vs. Centralized VCS
 - Repository
 - Commits
- Setting up your Git environment
- Ignore Files Working with Git

Working with git

- Cloning a BitBucket project
- Git help
- The Git Workflow
 - Add
 - Status
 - Commit
 - Diff
 - Remove
 - Move
 - Fixing errors
 - Reset
 - Revert
 - Checkout

The Stash Interface

- My Profile
 - Setting up access keys
- Projects
- Repositories

Workflow Strategies

- Branching basics
- Forking basics
- Centralized Workflow

- Feature Branch Workflow
- Git-flow Workflow
- Forking Workflow

Branching and Merging

- Creating branches in BitBucket
- Creating branches in Git
- Collaboration
 - Push
 - Fetch
 - Pull
 - Forking
 - Pull requests
- Switching branches
- Fast Forward Merge
- Three way Merge
- Rebasing
- Deleting Branches

Tagging

- Lightweight tags
- Annotated tags
- Signed Tags
- Create tags in Git
- Create tags in BitBucket
- Checkout tags in Git
- How to view tags
- How to checkout tags