Course Outline

Mastering Azure Repos

Course Summary

Description

Azure DevOps provides a set of cloud-hosted tools that software teams can use to quickly plan, develop, test, and deliver value in the form of working software. Azure Repos provide public or private Git repositories that enable better collaboration and cleaner code. In this course, students will work in teams, in a common team project, on a common codebase.

Topics

- Introduction To Azure Repos
- Git Concepts
- Ide Integration
- Working With Azure Repos
- Mastering Azure Repos

Audience

This course is appropriate for all software developers who are using or considering using Azure Repos for Git version control. Having some experience with version control is recommended. Experience with Git, Visual Studio or Visual Studio Code, and C# are also helpful, but not required.

Prerequisites

Some experience with version control is recommended. Experience with Git, Visual Studio, and C# are also helpful, but not required.

Duration

One day

Course Outline

Mastering Azure Repos

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I. INTRODUCTION TO AZURE REPOS
A. Azure DevOps overview
B. Azure Repos overview
C. Public vs. private repos
D. Creating, configuring, and securing repos
E. Hands-on

II. GIT CONCEPTS
A. DVCS concepts and Git overview
B. Using Git from the command line
C. Creating/cloning a repository
D. Git commit and history
E. Basic Git workflows
F. Git for Windows
G. Hands-on

III. IDE INTEGRATION
A. Visual Studio Integration
B. Visual Studio Code Integration
C. Connecting-to a repository
D. Basic Git workflows revisited
E. Associating comments and work items
F. Viewing commit history
G. Ignoring files when committing
H. Hands-on

IV. WORKING WITH AZURE REPOS
A. Annotating changes (for blame/praise)
B. Tagging
C. Editing commit history
D. Checkout to a previous version
E. Reverting to a previous version
F. Resetting to a previous version
G. Stashing changes
H. Branching and merging
I. Rebasing
J. Pull requests
K. Branch policies
L. Code reviews using pull requests
M. Hands-on

V. MASTERING AZURE REPOS
A. Git Hooks and Git extensions
B. Code Search
C. GitHub integration
D. Forking
E. Workflows (Git Flow, GitHub Flow)
F. Scalar (f.k.a. VFS for Git)
G. Repository limits
H. Hands-on