Microsoft Team Foundation Server 2015 Cookbook

Tarun Arora

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Over 80 hands-on DevOps and ALM-focused recipes for Scrum Teams to enable the Continuous Delivery of high-quality Software... Faster!

About This Book

- Release high quality, reliable software quickly through building, testing, and deployment automation
- Improve the predictability, reliability, and availability of TFS in your organization by scheduling administration and maintenance activities
- Extend, customize, and integrate tools with TFS, enabling your teams to manage their application lifecycles effectively

Who This Book Is For

This book is aimed at software professionals including Developers, Testers, Architects, Configuration Analysts, and Release Managers who want to understand the capabilities of TFS to deliver better quality software faster.

A working setup of TFS 2015 and some familiarity with the concepts of software life cycle management is assumed.

What You Will Learn

- Creating a Team Project with Dashboards, Assigning License, Adding users, and Auditing Access
- Setting up a Git repository in an existing TFVC-based Team Project
- Setting up branch policies and conducting Pull requests with code reviews
- Mapping, assigning and tracking work items shared by multiple teams
- Setting up and customizing Backlogs, Kanban board, Sprint Taskboard, and dashboards
- Creating a Continuous Integration, Continuous Build, and Release Pipeline
- Integrating SonarQube with TFBuild to manage Technical Debt
- Triggering Selenium Web Tests on a Selenium Test Grid using TFBuild
- Using Visual Studio Team Services Cloud load testing capability with new Build framework
- Extending and customizing the capabilities of Team Foundation Server using API and Process Editor

In Detail

Team Foundation Server (TFS) allows you to manage code repositories, build processes, test infrastructure, and deploy labs. TFS supports your team, enabling you to connect, collaborate, and deliver on time. Microsoft's approach to Application Lifecycle Management (ALM) provides a flexible and agile environment that adapts to the needs of your team, removes barriers between roles, and streamlines processes.

The book introduces you to creating and setting up team projects for scrum teams. You'll explore various

source control repositories, branching, and merging activities, along with a demonstration of how to embed quality into every code check-in. Then, you'll discover agile project planning and management tools. Later, emphasis is given to the testing and release management features of TFS which facilitate the automation of the release pipeline in order to create potentially shippable increments.

By the end of the book, you'll have learned to extend and customize TFS plugins to incorporate them into other platforms and enable teams to manage the software lifecycle effectively.

Style and approach

This book is a recipe-based guide that uses a problem-solution format to call out inefficiencies in the software development lifecycle and then guides you, step-by-step, on how you can use Team Foundation Server to your advantage in those areas.

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Donna Cauley:

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