



# Microsoft Team Foundation Server Cookbook

By Tarun Arora

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**Microsoft Team Foundation Server Cookbook** By Tarun Arora

**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 TFSBuild to manage Technical Debt
- Triggering Selenium Web Tests on a Selenium Test Grid using TFSBuild
- 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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### Microsoft Team Foundation Server Cookbook By Tarun Arora Bibliography

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### Editorial Review

About the Author

#### **Tarun Arora**

Tarun Arora is obsessed with high-quality working software, continuous delivery, and Agile practices. He has experience managing technical programs, implementing digital strategy, and delivering quality @ scale. Tarun has worked on various industry-leading programs for fortune 500 companies in the financial and energy sector. He is one of the many geeks working for Avanade in the United Kingdom. Avanade helps clients and their customers realize results in a digital world through business technology solutions, cloud, and managed services that combine insight, innovation, and expertise in Microsoft technologies. For the past 5 years, Tarun has been a Microsoft Most Valuable Professional in Visual Studio and Development Technologies. His core strengths are enterprise architecture, .NET, WPF, SQL, and PowerShell. He was awarded the MVP of the year award by Microsoft in 2014 for going over and above in supporting the product teams and the community with his contributions. He is also an ALM Ranger and has contributed to key guidance and tooling projects focused on Azure, Team Foundation Server, Visual Studio Team Services, and Visual Studio Extensibility. Tarun is an active open source community contributor, speaker, and blogger. Follow him on twitter at @arora\_tarun and his blog at <http://www.visualstudiogeeks.com> for the latest and greatest in technology trends and solutions on DevOps and ALM. Tarun loves photography and travel. He is a very active traveler and has travelled to more than 21 countries in the last few months. Parts of this book have been written on his journeys across three continents. While some chapters were written on the beaches of Mauritius, others were written in transit, airport lounges, and taxis. Follow his adventures on his travel blog (<https://outofofficetraveller.wordpress.com>).

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#### **Lucille Renner:**

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