

# Build And Release Management Using Tfs 2015

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*Build And Release Management Using Tfs 2015*

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## HOUSTON LUCAS

*Practical Development Environments* Simon and Schuster  
Master build and release management with Team Foundation Service and Visual Studio Team Services to facilitate the continuous delivery of software updates to your development team. You'll receive detailed, practical guidance on automating website deployments in Azure App Service, database deployments to Azure platform, Micro Services deployments in Azure Service Fabric, and more. Each deployment is structured with the aid of hands-on lessons in a given target environment designed to empower your teams to achieve successful DevOps. This book provides lessons on how to optimize build release management definitions using capabilities, such as task groups. With the help of practical scenarios, you'll also learn how to diagnose and fix issues in automated builds and deployments. You'll see how to enhance the capability of build and release management, using team services/TFS Marketplace extensions and writing your own extensions for any missing functionality via hands-on lessons. What You Will Learn Automate deployment to Azure platform, including Web App Service, Azure SQL and Azure Service Fabric Test automation integration with builds and deployments Perform Dynamic CRM deployment handling and package management with TFS/VSTS Examine requirement to production delivery traceability in practical terms Review cross platform build/deployment capabilities of TFS/VSTS. Who This Book Is For Build/Release Engineers, Configuration Managers, Software Developers, Test Automation Engineers, System Engineers, Software Architects and System/Production Support Engineers or anyone who handles and involves in the software

delivery process.

*A Blueprint for Implementing Best Practice Procedures in a Digital Forensic Laboratory* Springer Nature

Software is transforming the world, but there is still work to be done to ensure quality in the delivery experience itself. IT departments must invest in paying down technical and organizational debts, creating fast feedback loops in close collaboration with stakeholders, and using automation of manual labor. If they don't, these organizations will be unable to recruit and retain the talent required to achieve strategic goals. Based on author Kristian Bank Erbou's fifteen years of real-life experience with Agile software development, CI/CD, and DevOps, this book provides a technology-agnostic blueprint of building, testing, and deploying a digital delivery to end users. It includes dedicated chapters focusing on security considerations and real-life examples of implementing automation in organizations of all sizes. After reading this book, you will have a better understanding of: What the benefit of automation is from a leader's perspective How to get your delivery team started in automating releases How you should design into a build pipeline Which activities you should consider in a deployment pipeline Why variance between environments is bad for you How to get better at writing automated tests Why you shouldn't just automate everything Both technical and nontechnical decision makers will learn more about how to build flexibility and increased monitoring capabilities into the delivery experience of digital software assets with respect for both points of view. *Continuous Delivery* "O'Reilly Media, Inc."

Continuous delivery adds enormous value to the business and the entire software delivery lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham

Marín-Pérez provide guidance to help experienced Java developers master skills such as architectural design, automated quality assurance, and application packaging and deployment on a variety of platforms. Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments. Get advice for beginning or completing your migration to continuous delivery Design architecture to enable the continuous delivery of Java applications Build application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images Use continuous integration tooling like Jenkins, PMD, and find-sec-bugs to automate code quality checks Create a comprehensive build pipeline and design software to separate the deploy and release processes Explore why functional and system quality attribute testing is vital from development to delivery Learn how to effectively build and test applications locally and observe your system while it runs in production

**The Buildmeister's Guide** Packt Publishing Ltd  
Master the SAP product ecosystem, the client environment, and the feasibility of implementing critical business process with the required technical and functional configuration. SAP Project Management Pitfalls is the first book to provide you with real examples of the pitfalls that you can avoid, providing you with a road-map to a successful implementation. Jay Kay, a SAP Program Manager for Capgemini, first takes a deep dive into common pitfalls in implementing SAP ERP projects in a complex IT landscape. You will learn about the potential causes of failures, study a selection of relevant project implementation case studies in the area, and see a range of possible countermeasures. Jay Kay also provides background on each - the significance of each

implementation area, its relevance to a service company that implements SAP projects, and the current state of research. Key highlights of the book: Tools and techniques for project planning and templates for allocating resources Industry standards and innovations in SAP implementation projects in the form of standard solutions aimed at successful implementation Managing SAP system ECC upgrades, EHP updates and project patches Learn effective ways to implement robust SAP release management practices (change management, BAU) Wearing a practitioner's insight, Jay Kay explores the relevance of each failed implementation scenario and how to support your company or clients to succeed in a SAP implementation. There are many considerations when implementing SAP, but as you will learn, knowledge, insight, and effective tools to mitigate risks can take you to a successful implementation project.

#### **Transportation Management with SAP TM 9** Metropolitan Books

When implemented correctly, release management can help ensure that quality is integrated throughout the development, implementation, and delivery of services, applications, and infrastructure. This holistic, total cost of ownership approach allows for higher levels of system availability, is more cost effective to maintain, and increases overall stability, maintainability, and reliability. Filled with practical insights, *IT Release Management: A Hands-on Guide* clearly illustrates the effective implementation of a release process in the real world. It examines the similarities and differences of release management and project management to clear up any confusion there might be about the two complementary processes. Shedding light on the day-to-day challenges that need to be overcome to ensure success, it details the how-to's of effective implementation—including what to implement, how to do it, and when to do it. This complete resource includes a detailed model for executing a release management process, as well as numerous templates, diagrams, and role and responsibility charts to help kick start implementation efforts in your organization. Addressing the all-important cultural aspects, it explains how to sell the benefits of release management to all levels of your organization, how to overcome objections, and how to determine organizational readiness. Emphasizing the need to measure performance, it explains how to develop effective performance

metrics and supplies many helpful examples of effective productivity measures. When it comes to implementation, what works in one organization doesn't necessarily work in another. This accessible guide provides you with the tools to build on your practical knowledge and effectively implement a release management practice custom tailored to your organization.

**DevOps on the Microsoft Stack** John Wiley & Sons  
Ramp up your software development with this comprehensive resource Microsoft's Application Lifecycle Management (ALM) makes software development easier and now features support for iOS, MacOS, Android, and Java development. If you are an application developer, some of the important factors you undoubtedly consider in selecting development frameworks and tools include agility, seamless collaboration capabilities, flexibility, and ease of use. Microsoft's ALM suite of productivity tools includes new functionality and extensibility that are sure to grab your attention. Professional Application Lifecycle Management with Visual Studio 2013 provides in-depth coverage of these new capabilities. Authors Mickey Gousset, Martin Hinshelwood, Brian A. Randell, Brian Keller, and Martin Woodward are Visual Studio and ALM experts, and their hands-on approach makes adopting new ALM functionality easy. Streamline software design and deployment with Microsoft tools and methodologies Gain a practical overview of ALM with step-by-step guides and reference material Case studies illustrate specific functionality and provide in-depth instruction Use new capabilities to support iOS, MacOS, Android and Java development Discover this comprehensive solution for modeling, designing, and coordinating enterprise software deployments Over 100 pages of new content, forward-compatible with new product releases Professional Application Lifecycle Management with Visual Studio 2013 provides a complete framework for using ALM to streamline software design and deployment processes using well-developed Microsoft tools and methodologies. Professional Application Lifecycle Management with Visual Studio 2013 is your guide to make use of newly-available ALM features to take your enterprise software development to the next level.

Continuous Delivery with Visual Studio ALM 2015 CRC Press  
Improve team productivity with Integrated Processes, Planning, and Collaboration using IBM Rational Team Concert Enterprise Edition through this book and eBook.

#### *IT Release Management* CRC Press

Summary Agile ALM is a guide for Java developers who want to integrate flexible agile practices and lightweight tooling along all phases of the software development process. The book introduces a new vision for managing change in requirements and process more efficiently and flexibly. It synthesizes technical and functional elements to provide a comprehensive approach to software development. About the Technology Agile Application Lifecycle Management (Agile ALM) combines flexible processes with lightweight tools in a comprehensive and practical approach to building, testing, integrating, and deploying software. Taking an agile approach to ALM improves product quality, reduces time to market, and makes for happier developers. About the Book Agile ALM is a guide for Java developers, testers, and release engineers. By following dozens of experience-driven examples, you'll learn to see the whole application lifecycle as a set of defined tasks, and then master the tools and practices you need to accomplish those tasks effectively. The book introduces state-of-the-art, lightweight tools that can radically improve the speed and fluidity of development and shows you how to integrate them into your processes. The tools and examples are Java-based, but the Agile ALM principles apply to all development platforms. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside A thorough introduction to Agile ALM Build an integrated Java-based Agile ALM toolchain Use Scrum for release management Reviewed by a team of 20 Agile ALM experts =====  
Table of Contents PART 1 INTRODUCTION TO AGILE ALM Getting started with Agile ALM ALM and Agile strategiesPART 2 FUNCTIONAL AGILE ALM Using Scrum for release management Task-based developmentPART 3 INTEGRATION AND RELEASE MANAGEMENT Integration and release management Creating a productive development environment Advanced CI tools and recipesPART 4 OUTSIDE-IN AND BARRIER-FREE DEVELOPMENT Requirements and test management Collaborative and barrier-free development with Groovy and Scala  
Implementing Itil Change And Release Management Building Better Software  
Stereotypes portray software engineers as a reckless lot, and stereotypes paint software configuration management (SCM)

devotees as inflexible. Based on these impressions, it is no wonder that projects can be riddled with tension! The truth probably lies somewhere in between these stereotypes, and this book shows how proven SCM practices can foster a healthy team-oriented culture that produces better software. The authors show that workflow, when properly managed, can avert delays, morale problems, and cost overruns. A patterns approach (proven solutions to recurring problems) is outlined so that SCM can be easily applied and successfully leveraged in small to medium sized organizations. The patterns are presented with an emphasis on practicality. The results speak for themselves: improved processes and a motivated workforce that synergize to produce better quality software.

#### SAP Project Management Pitfalls Apress

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 TFS Build to manage Technical Debt Triggering Selenium Web Tests on a Selenium Test Grid using TFS Build 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.

**Practical SharePoint 2013 Governance** The Stationery Office The Must-have Reference Guide for SAFe® Practitioners "There are a lot of methods of scale out there, but the Scaled Agile Framework is the one lighting up the world." -Steve Elliot, Founder/CEO AgileCraft "You don't have to be perfect to start SAFe because you learn as you go-learning is built in. Before SAFe, I would not know how to help my teams but now I have many tools to enable the teams. My job is really fun and the bottom line is I have never enjoyed my job more!" -Product Manager, Fortune 500 Enterprise Captured for the first time in print, the SAFe body of knowledge is now available as a handy desktop reference to help you accomplish your mission of building better software and systems. Inside, you'll find complete coverage of what has, until now, only been available online at scaledagileframework.com. The SAFe knowledge base was developed from real-world field experience and provides proven success patterns for implementing Lean-Agile software and systems development at enterprise scale. This book provides comprehensive guidance for work at the enterprise Portfolio,

Value Stream, Program, and Team levels, including the various roles, activities, and artifacts that constitute the Framework, along with the foundational elements of values, mindset, principles, and practices. Education & Training Key to Success The practice of SAFe is spreading rapidly throughout the world. The majority of Fortune 100 U.S. companies have certified SAFe practitioners and consultants, as do an increasing percentage of the Global 1000 enterprises. Case study results-visit scaledagileframework.com/case-studies-typically include: 20-50% increase in productivity 50%+ increases in quality 30-75% faster time to market Measurable increases in employee engagement and job satisfaction With results like these, the demand from enterprises seeking SAFe expertise is accelerating at a dramatic rate. Successful implementations may vary in context, but share a common attribute: a workforce well trained and educated in SAFe practices. This book-along with authorized training and certification-will help you understand how to maximize the value of your role within a SAFe organization. The result is greater alignment, visibility, improved performance throughout the enterprise, and ultimately better outcomes for the business.

IBM Rational ClearCase, Ant, and CruiseControl Prentice Hall Dive into the world of SAP Solution Manager's Focused Build application with this essential guide, designed to help you manage development and configuration activities effectively. This book aims to go beyond technical information and setup guides by sharing practical experiences, valuable tips, and insights on what works and what doesn't. Understand the relationship between Focused Build and SAP Solution Manager, and explore the key features that can enhance your project management experience. Determine if Focused Build is the ideal tool for your projects. Familiarize yourself with Focused Build's end-to-end processes and the various roles crucial for successful project implementation. Understand how to use Focused Build to document and prioritize requirements, approve implementation scope, and manage the build process with ease. This step-by-step guide shows you how to create work packages, deal efficiently with work items, correct errors, and handle changes in your projects. The key topics covered in this easy-to-follow guide include:

- Introduction to Focused Build for SAP Solution Manager

- Key features and benefits of Focused Build
- End-to-end requirements definition, project scoping, and build management
- Configuration overview and best practices

Cloud Native Automation with Google Cloud Build "O'Reilly Media, Inc."

This comprehensive resource will help you automate and optimize all facets of service management with System Center 2012 Service Manager. Expert consultants offer deep "in the trenches" insights for improving problem resolution, change control, release management, asset lifecycle management, chargeback, and more. You'll learn how to implement high-value best practices from ITIL and the Microsoft Operations Framework. The authors begin with an expert overview of Service Manager, its evolution, and its new capabilities. Next, they walk through overall planning, design, implementation, and upgrades. Then, to help you focus your efforts, they present stepwise coverage of all topics in each feature area, linking technical information about Service Manager with essential knowledge about the technologies it depends on. Whatever your role in deploying or running Service Manager, this guide will help you deliver more responsive support at lower cost and drive more value from all your IT investments.

- Leverage MOF and ITIL processes built into System Center 2012 Service Manager
- Plan and design your Service Manager deployment
- Install Service Manager or upgrade from earlier versions
- Efficiently administer work and configuration items
- Use connectors to integrate with Active Directory, Exchange, and System Center components
- Create service maps
- Enable end user access through Service Manager's self-service portal
- Implement incident, problem, change, and release management
- Utilize workflows to automate key support processes
- Create service level agreements with calendars, metrics, and objectives
- Provide quick access to a standardized catalog of services
- Use notification to ensure that Service Manager items are promptly addressed
- Secure Service Manager and its data warehouse/reporting platform
- Perform maintenance, backup, and recovery
- Manage Service Manager performance
- Customize Service Manager

Software Supply Chain Security Apress

When implemented correctly, release management can help

ensure that quality is integrated throughout the development, implementation, and delivery of services, applications, and infrastructure. This holistic, total cost of ownership approach allows for higher levels of system availability, is more cost effective to maintain, and increases overall s

Azure for Architects Addison-Wesley Professional

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Build Better Software Springer

Cisco Systems product release specialist Michael Bays organizes the process -- and the book -- into six key elements: source code control, product build, testing and defect tracking, code integration techniques, software change management, and release engineering. Bays presents detailed coverage in every area -- much of which has never appeared in a book before. Better yet, he shows how every stage can be integrated into a single coherent process that delivers improved quality faster than the haphazard approaches most companies use today. The book is full of well-thought-out solutions to the problems you're most likely to encounter -- and the solutions are scalable, so even the smallest company can benefit from them.

Professional Team Foundation Server Packt Publishing Ltd

Frustrated by the requirements for testing and distributing your iOS app? You're not alone. This concise book takes you step by step through the maze of certification and provisioning processes that have to happen before, during, and after development. You'll learn what's required to sign certificates, test your app on iOS devices, and release the finished product to the App Store. Whether you're a developer looking to spend more time coding and less time figuring out how to install your application, or a release engineer responsible for producing reliable builds, this guide will help you successfully navigate the build and release processes for your iOS app. Get an overview of the iOS Dev Center, including the iOS Provisioning Portal, Member Center, and iTunes Connect Create your App ID, and generate signing certificates for development and distribution Manage the provisioning profiles necessary to test your app on iOS devices Learn common scenarios for iOS Simulator, Ad Hoc, and App Store distribution builds Automate the process to continuously build, sign, and package your app(s) for distribution

Software Configuration Management Patterns Sams Publishing

Learn about Azure DevOps services to successfully apply DevOps strategies

- KEY FEATURES
- Share knowledge on DevOps implementation and use of Azure DevOps services.
- Learn about Azure artifacts, dependency management, and CI/CD pipeline management.
- Manage third-party integration, Agile planning, and application lifecycle management.

DESCRIPTION

This book offers readers the best DevOps practices and explains how to implement various services of Azure DevOps to ensure efficiency, effectiveness, and better management of the entire software development lifecycle. This book explains each component of Azure DevOps services, their pricing models, and a quick tutorial on how to proceed with its usage. Backed with numerous examples, this book helps you implement Agile planning using Azure Boards, maintain code versioning using Azure Repos, and manage CI/CD using Azure Pipelines. You will learn how to administer the DevOps process such as managing packages using the most popular Azure Artifacts and how to run Test Plans using Azure Test Plans. You will also learn how to integrate with third-party systems. Finally, you will learn about marketplaces of extensions and how to develop your own extensions. WHAT YOU WILL LEARN

- Learn DevOps culture, practices, and habits.
- Learn to manage version control of the source code within Azure

DevOps Services. \_ Learn how to administer Azure DevOps services for an enterprise application lifecycle management system. \_ Learn Azure DevOps services and features. WHO THIS BOOK IS FORÊÊ This book is for anyone who wishes to use or who are using Azure DevOps services, including Infrastructure engineers, Software engineers, Architects, Testers, Managers, or Product Owners. Ê TABLE OF CONTENTS 1. Introduction to Azure DevOps 2. Azure DevOps Organization 3. Azure DevOps Project 4. Azure Board 5. Azure Repos 6. Azure Pipelines 7. Azure Artifacts 8. Azure Test Plans 9. Extension Marketplace

### **Software Release Methodology** Apress

Build and design multiple types of applications that are cross-language, platform, and cost-effective by understanding core Azure principles and foundational concepts Key FeaturesGet familiar with the different design patterns available in Microsoft AzureDevelop Azure cloud architecture and a pipeline management systemGet to know the security best practices for your Azure deploymentBook Description Thanks to its support for high availability, scalability, security, performance, and disaster recovery, Azure has been widely adopted to create and deploy different types of application with ease. Updated for the latest developments, this third edition of Azure for Architects helps you get to grips with the core concepts of designing serverless architecture, including containers, Kubernetes deployments, and

big data solutions. You'll learn how to architect solutions such as serverless functions, you'll discover deployment patterns for containers and Kubernetes, and you'll explore large-scale big data processing using Spark and Databricks. As you advance, you'll implement DevOps using Azure DevOps, work with intelligent solutions using Azure Cognitive Services, and integrate security, high availability, and scalability into each solution. Finally, you'll delve into Azure security concepts such as OAuth, OpenConnect, and managed identities. By the end of this book, you'll have gained the confidence to design intelligent Azure solutions based on containers and serverless functions. What you will learnUnderstand the components of the Azure cloud platformUse cloud design patternsUse enterprise security guidelines for your Azure deploymentDesign and implement serverless and integration solutionsBuild efficient data solutions on AzureUnderstand container services on AzureWho this book is for If you are a cloud architect, DevOps engineer, or a developer looking to learn about the key architectural aspects of the Azure cloud platform, this book is for you. A basic understanding of the Azure cloud platform will help you grasp the concepts covered in this book more effectively.

System Center 2012 Service Manager Unleashed Academic Press For any software developer who has spent days in "integration hell," cobbling together myriad software components, Continuous Integration: Improving Software Quality and Reducing Risk

illustrates how to transform integration from a necessary evil into an everyday part of the development process. The key, as the authors show, is to integrate regularly and often using continuous integration (CI) practices and techniques. The authors first examine the concept of CI and its practices from the ground up and then move on to explore other effective processes performed by CI systems, such as database integration, testing, inspection, deployment, and feedback. Through more than forty CI-related practices using application examples in different languages, readers learn that CI leads to more rapid software development, produces deployable software at every step in the development lifecycle, and reduces the time between defect introduction and detection, saving time and lowering costs. With successful implementation of CI, developers reduce risks and repetitive manual processes, and teams receive better project visibility. The book covers How to make integration a "non-event" on your software development projects How to reduce the amount of repetitive processes you perform when building your software Practices and techniques for using CI effectively with your teams Reducing the risks of late defect discovery, low-quality software, lack of visibility, and lack of deployable software Assessments of different CI servers and related tools on the market The book's companion Web site, [www.integratebutton.com](http://www.integratebutton.com), provides updates and code examples.