

Build And Release Management Using Tfs 2015

The implementation of a TMS solution is a highly complex and mission critical project. If executed correctly a good TMS can deliver a number of benefits to the organization in terms of optimization, greater efficiency, reduced errors and improved revenue through accurate invoicing. However a number of projects fail to realize these benefits for a host of reasons such as an incorrect product selection, over customization of the system and lack of detailed processes. The evaluation and selection of the right transportation management system is a very critical step in the successful implementation of a TMS product as well as ensuring that the organization is able to realize the benefits expected from the system. Transportation Management with SAP TM 9 is a guide for CIO/CXOs evaluating options for various transportation management solutions available in the market and helps in appropriate decision making before committing investment. A proven evaluation framework and guidance provided in the book can help decision makers with product selection and help to create a business case for management approval and design a future roadmap for the organization. The book provides a comprehensive understanding of what SAP transportation management is and is useful for teams involved in TM Implementation and roll outs to ensure preparedness. The book explains end-to-end freight life cycle processes, functional system landscape, implementation challenges and post go-live precautions required to optimize investments in SAP TM. Transportation Management with SAP TM 9 also acts as a step by step implementation guide with details of configuration required to set up a TM9 system. This book also covers the upgrade of SAP TM8 to SAP TM9 which will be useful for existing clients who are on TM 8. Nonavailability of SAP TM skilled resources is a major challenge faced by organizations and the book provides a detailed competency building plan along with skill set requirements to create a competent and trained workforce to manage-transformation. The current book available in the market on SAP TM is based on Version 6 release which does not cover air freight processes. Our book covers end-to-end air freight configuration scenarios for logistic companies.

Improve team productivity with Integrated Processes, Planning, and Collaboration using IBM Rational Team Concert Enterprise Edition through this book and eBook.

The New York Times bestselling author of *Better and Complications* reveals the surprising power of the ordinary checklist. We live in a world of great and increasing complexity, where even the most expert professionals struggle to master the tasks they face. Longer training, ever more advanced technologies—neither seems to prevent grievous errors. But in a hopeful turn, acclaimed surgeon and writer Atul Gawande finds a remedy in the humblest and simplest of techniques: the checklist. First introduced decades ago by the U.S. Air Force, checklists have enabled pilots to fly aircraft of mind-boggling

sophistication. Now innovative checklists are being adopted in hospitals around the world, helping doctors and nurses respond to everything from flu epidemics to avalanches. Even in the immensely complex world of surgery, a simple ninety-second variant has cut the rate of fatalities by more than a third. In riveting stories, Gawande takes us from Austria, where an emergency checklist saved a drowning victim who had spent half an hour underwater, to Michigan, where a cleanliness checklist in intensive care units virtually eliminated a type of deadly hospital infection. He explains how checklists actually work to prompt striking and immediate improvements. And he follows the checklist revolution into fields well beyond medicine, from disaster response to investment banking, skyscraper construction, and businesses of all kinds. An intellectual adventure in which lives are lost and saved and one simple idea makes a tremendous difference, *The Checklist Manifesto* is essential reading for anyone working to get things right. "No previous build experience is necessary: Lee thoroughly explains everything from configuring SCM environments and defining build scripts through to release packaging and deployment. He offers solutions and techniques for both Base ClearCase and Unified Change Management (UCM)-IBM Rational's best practice Software Configuration Management usage model. Key techniques are presented in real-world context, through a full-fledged three-tier application case study. Book jacket."--Jacket.

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 FOR
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. È 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 engineering is widely recognized as one of the most exciting, stimulating, and profitable research areas, with a significant practical impact on the software industry. Thus, training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field. The International Summer School on Software Engineering (ISSSE), which started in 2003, aims to contribute both to training future researchers and to facilitating the exchange of knowledge between academia and industry. This volume constitutes a collection of articles originating from tutorial lectures given during the last three ISSSE summer schools, as well as a number of contributions on some of the latest findings in the field of software engineering. The book is organized in three parts on software requirements and design; software testing and reverse engineering; and management.

Build and design multiple types of applications that are cross-language, platform, and cost-effective by understanding core Azure principles and foundational concepts Key Features Get familiar with the different design patterns available in Microsoft Azure Develop Azure cloud architecture and a pipeline management system Get to know the security best practices for your Azure deployment Book 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 learn Understand the components of the Azure cloud platform Use cloud design patterns Use enterprise security guidelines for your Azure deployment Design and implement serverless and integration solutions Build efficient data solutions on Azure Understand container services on Azure Who 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.

Based on the author's first-hand experience and expertise, this book offers a proven framework for global software engineering. Readers will learn best practices for managing a variety of software projects, coordinating the activities of several locations across the globe while accounting for cultural differences. Most importantly, readers will learn how to engineer a first-rate software product as efficiently as possible by fully leveraging global personnel and resources. Global Software and IT takes a unique approach that works for projects of any size, examining such critical topics as: Executing a seamless project across multiple locations Mitigating the risks of off-shoring Developing and implementing processes for global development Establishing practical outsourcing guidelines Fostering effective collaboration and communication across continents and culture This book provides a balanced framework for planning global development, covering topics such as managing people in distributed sites and managing a project across locations. It delivers a comprehensive business model that is beneficial to anyone looking for the most cost-effective, efficient way to engineer good software products.

This book tells you everything you need to know to help your organization implement DevOps on the Microsoft platform. You will learn how to use Visual Studio, Visual Studio Team Services, and Azure to implement a complete DevOps process in your company. You will learn about Agile Project Management, Continuous Integration, Continuous Delivery, Technical Debt Management, Automatic Testing and Monitoring, and see how all these areas fit together. DevOps is important for organizations that want to make the best use of their resources and avoid costly mistakes. Teams that embrace DevOps deploy code up to 30 times more frequently than their competition and less than 50% of their deployments fail according to Puppet Labs State of DevOps survey. DevOps on the Microsoft Stack shows you how to help your organization implement DevOps, covering the tooling they will need and how to make everything work together while following best practices. The focus is not only on technology but also on the cultural issues that teams will face when implementing DevOps. The author's goal is to not only show you which tooling there is but help you to successfully use everything together to implement DevOps in your projects and organization. In this book, you'll learn: What DevOps is and how it can help development teams How to use Visual Studio, Visual Studio Team Services, and Azure to setup a DevOps process How to introduce DevOps to your organization and how to overcome problems

Successfully Implement High-Value Configuration Management Processes in Any Development Environment As IT systems have grown increasingly complex and mission-critical, effective configuration management (CM) has become critical to an organization's success. Using CM best practices, IT professionals can systematically manage change, avoiding unexpected problems introduced by changes to hardware, software, or networks. Now, today's best CM practices have been gathered in one indispensable resource showing you how to implement them throughout any agile or traditional development organization. Configuration Management Best Practices is practical, easy to understand and apply, and fully reflects the day-to-day realities faced by practitioners. Bob Aiello and Leslie Sachs thoroughly address all six "pillars" of CM: source code management, build engineering, environment configuration, change control, release engineering, and deployment. They demonstrate how to implement CM in ways that support software and systems development, meet compliance rules such as SOX and SAS-70, anticipate emerging standards such as IEEE/ISO 12207, and integrate with modern frameworks such as ITIL, COBIT, and CMMI. Coverage includes Using

CM to meet business objectives, contractual requirements, and compliance rules Enhancing quality and productivity through lean processes and “just-in-time” process improvement Getting off to a good start in organizations without effective CM Implementing a Core CM Best Practices Framework that supports the entire development lifecycle Mastering the “people” side of CM: rightsizing processes, overcoming resistance, and understanding workplace psychology Architecting applications to take full advantage of CM best practices Establishing effective IT controls and compliance Managing tradeoffs and costs and avoiding expensive pitfalls Configuration Management Best Practices is the essential resource for everyone concerned with CM: from CTOs and CIOs to development, QA, and project managers and software engineers to analysts, testers, and compliance professionals.

Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours— sometimes even minutes—no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the “deployment pipeline,” an automated process for managing all changes, from check-in to release. Finally, they discuss the “ecosystem” needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes

- Automating all facets of building, integrating, testing, and deploying software
- Implementing deployment pipelines at team and organizational levels
- Improving collaboration between developers, testers, and operations
- Developing features incrementally on large and distributed teams
- Implementing an effective configuration management strategy
- Automating acceptance testing, from analysis to implementation
- Testing capacity and other non-functional requirements
- Implementing continuous deployment and zero-downtime releases
- Managing infrastructure, data, components and dependencies
- Navigating risk management, compliance, and auditing

Whether you’re a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved

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Integrate Agile ALM and DevOps to Build Better Software and Systems at Lower Cost Agile Application Lifecycle Management (ALM) is a comprehensive development lifecycle that embodies essential Agile principles and guides all activities needed to deliver successful software or systems. Agile ALM embodies Agile Configuration Management (CM) and much more. Flexible and robust, it offers “just enough process” to get the job done and leverages DevOps to enhance interactions among all participants. Agile Application Lifecycle Management offers practical advice and strategies for implementing Agile ALM in your complex environment. Leading experts Bob Aiello and Leslie Sachs show how to fully leverage Agile benefits without sacrificing structure, traceability, or repeatability. You’ll find realistic guidance for managing source code, builds, environments, change control, releases, and more. The authors help you support Agile in organizations that maintain traditional practices; conventional ALM systems; or siloed, non-Agile teams. They also show how to scale Agile ALM to large or distributed teams, and to environments from cloud to mainframe. Coverage includes Understanding key concepts underlying modern application and system lifecycles Creating your best processes for developing your most complex software and systems Automating build engineering, continuous integration, and continuous delivery/deployment Enforcing Agile ALM controls without compromising productivity Creating effective IT operations that align with Agile ALM processes Gaining more value from testing and retrospectives Making ALM work in the cloud, and across the enterprise Preparing for the future of Agile ALM Today, you need maximum control, quality, and productivity, and this guide will help you achieve those by using Agile ALM, CM, and DevOps together.

This book will help you get started with agile project management using Microsoft’s latest releases of its market-leading Team Foundation Server (TFS) 2015, and Visual Studio Team Services (VSTS). The book demonstrates agile concepts and how to implement them using TFS/VSTS. Many organizations are using agile practices today. Agility has become a key enabler for running better projects with more successful end results and high quality output. At the same time, adoption of TFS/VSTS has increased dramatically, from being just a new version control system in the very beginning to becoming the fully-featured market leader it is today. In order to benefit the most from agile practices you need an Application Lifecycle Management (ALM) toolset that supports your way of working. With TFS/VSTS, Microsoft has provided a powerful tool that is very customizable. This book shows you how you can use TFS/VSTS to implement many agile practices and how they fit into a well-thought-out ALM implementation. The book also shows how an agile product owner can work with TFS/VSTS to setup an agile project from scratch and how to continue using TFS/VSTS throughout the whole project to track progress, create and refine the backlog, and work with Kanban and Scrum Task boards. Keeping track of progress is important in any project. TFS/VSO includes many tools which will help you to track key metrics in an agile project. Many useful reports are available out of the box, and the TFS extensibility offers several ways to further customize reporting to fit your needs. What You Will Learn: Agile Concepts and Processes How TFS/VSO supports agile processes end to end How you can customize TFS/VSO to better support your processes How to set up an agile project from scratch and manage it over its lifecycle 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-secc-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 Business-Focused, Best-Practice Guide to Succeeding with ITIL Change and Release Management ITIL® (Information Technology Infrastructure Library®) can help organizations streamline and integrate their operations, dramatically improving efficiency and delivering greater business value. For the first time, there's a comprehensive best-practice guide to succeeding with two of the most crucial and challenging parts of ITIL: change and release management. Leading IBM® ITIL expert and author Larry Klosterboer shares solid expertise gained from real implementations across multiple industries. He helps you decide where to invest, avoid ITIL pitfalls, and build successful, long-term processes that deliver real return on investment. You'll find detailed guidance on each process, integrated into a comprehensive roadmap for planning, implementation, and operation—a roadmap available nowhere else. Klosterboer offers in-depth coverage of the crucial issues every implementer will face, including make-or-break challenges most consultants can't or won't talk about. For example, he demonstrates how to set a reasonable project scope, migrate data, execute successful pilot programs, and continually improve quality once ITIL practices are in place. This book's practical insights will be invaluable to every IT executive, professional, and user who wants to bring their current change and release practices in line with ITIL—and transform them from a source of frustration into a source of value. Coverage includes Discovering and managing your change and release management requirements Identifying the resources you'll need to succeed Building comprehensive schedules for executing change/release management projects Moving from planning to real-world implementation Choosing the right tools—or modifying the tools you've already invested in Using change/release management to facilitate auditing and ensure compliance Leveraging the full business benefits of mature change/release management processes Covers ITIL version 3

The expert-led, full-coverage supporting guide for all four ITIL exams ITIL Intermediate Certification Companion Study Guide is your ultimate support system for the Intermediate ITIL Service Capability exams. Written by Service Management and ITIL framework experts, this book gives you everything you need to pass, including full coverage of all objectives for all four exams. Clear, concise explanations walk you through the process areas, concepts, and terms you need to know, and real-life examples show you how they are applied by professionals in the field every day. Although this guide is designed for exam preparation, it doesn't stop there — you also get expert insight on major topics in the field. The discussion includes operational support and analysis; planning, protection and optimization; release, control and validation; and service offerings and agreements that you'll need to know for the job. ITIL is the most widely-adopted IT Service Management qualification in the world, providing a practical, no-nonsense framework for identifying, planning, delivering, and supporting IT

services to businesses. This book is your ideal companion for exam preparation, with comprehensive coverage and detailed information. Learn service strategy principles, organization, and implementation Master the central technologies used in IT Service Management Be aware of inherent challenges, risks, and critical success factors Internalize the material covered on all four ITIL exams The ITIL qualification is recognized around the globe, and is seen as the de facto certification for those seeking IT Service Management positions. Passing these exams requires thorough preparation and rigorous self-study, but the reward is a qualification that can follow you anywhere. ITIL Intermediate Certification Companion Study Guide for the ITIL Service Capability Exams leads you from Foundation to Master, giving you everything you need for exam success. Leverage Azure security services to architect robust cloud solutions in Microsoft Azure Key Features Secure your Azure cloud workloads across applications and networks Protect your Azure infrastructure from cyber attacks Discover tips and techniques for implementing, deploying, and maintaining secure cloud services using best practices Book Description Security is always integrated into cloud platforms, causing users to let their guard down as they take cloud security for granted. Cloud computing brings new security challenges, but you can overcome these with Microsoft Azure's shared responsibility model. Mastering Azure Security covers the latest security features provided by Microsoft to identify different threats and protect your Azure cloud using innovative techniques. The book takes you through the built-in security controls and the multi-layered security features offered by Azure to protect cloud workloads across apps and networks. You'll get to grips with using Azure Security Center for unified security management, building secure application gateways on Azure, protecting the cloud from DDoS attacks, safeguarding with Azure Key Vault, and much more. Additionally, the book covers Azure Sentinel, monitoring and auditing, Azure security and governance best practices, and securing PaaS deployments. By the end of this book, you'll have developed a solid understanding of cybersecurity in the cloud and be able to design secure solutions in Microsoft Azure. What you will learn Understand cloud security concepts Get to grips with managing cloud identities Adopt the Azure security cloud infrastructure Grasp Azure network security concepts Discover how to keep cloud resources secure Implement cloud governance with security policies and rules Who this book is for This book is for Azure cloud professionals, Azure architects, and security professionals looking to implement secure cloud services using Azure Security Centre and other Azure security features. A fundamental understanding of security concepts and prior exposure to the Azure cloud will help you understand the key concepts covered in the book more effectively.

One-of-a-kind book on an important process. This book goes far beyond traditional books on SCM by providing a methodical, complete view of the capture, versioning, build and release process. While the book focuses on what must be done to safely release a software product into production, the book also

provides the necessary steps to assure product quality and integrity. Key milestones covered include defect tracking, change control and release tracking. These three areas, are not covered in any real depth in most SCM books, and are welcome additions to the applications delivery body of knowledge. If you need to develop processes and procedures in support of release management you will know that describing the capture, versioning, build and release process is not an easy task. The book does a remarkable job of separating out the pieces, focusing on each piece as it relates to the whole, and crafting a big picture that you can drill down into for details. This book is great for Build and release managers, software configuration managers, developers who need to understand the processes for which they are responsible for complying, production services personnel who receive applications into production after the release process is complete, SQA professionals and ITIL and project managers who also need to be aware of the release management process. ITIL Service Managers and Project managers will find the entire capture, versioning, build and release cycle description in the book useful for adding appropriate tasks and deliverables to project plans. If you follow the process cycle you will make sure that every milestone, task and deliverable in a development project is accounted for. It is also invaluable to production services staff who will be receiving applications into production. This book is the only book of its kind, it is complete and covers every imaginable detail, and it addresses topics that are of interest to a wide audience. 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.

This book constitutes the refereed proceedings of the 12th International IFIP WG 2.13 International Conference on Open Source Systems, OSS 2016, held in Gothenburg, Sweden, in May/June 2016. The 13 revised full papers presented were carefully reviewed and selected from 38 submissions. The papers cover a wide range of topics related to free, libre, and open source software, including: organizational aspects of communities; organizational adoption; participation of women; software maintenance and evolution; open standards and open data; collaboration; hybrid communities; code reviews; and certification.

Practical SharePoint 2013 Governance is the first book to offer practical and action-focused SharePoint governance guidance based on consulting experiences with real organizations in the field. It provides the quintessential governance reference guide for SharePoint consultants, administrators, architects, and anyone else looking for actual hands-on governance guidance. This book goes beyond filling in a governance document template and focuses entirely on actions to take and behaviors to adopt for addressing real-world governance challenges. Walks you through how to define what SharePoint offers and who is involved Offers key governance strategies for you to adopt or advise to your customers Provides real-world examples that apply each governance concept to an actual scenario What you'll learn Define a scope to offer SharePoint as a service to an organization Specify roles and responsibilities involved in a SharePoint service Envision and strategize a SharePoint roadmap Plan for growing and upgrading a SharePoint environment Measure and report on performance metrics Set boundaries for development standards and testing processes Who this book is for Practical SharePoint 2013 Governance is for SharePoint consultants, administrators, architects, and anyone else looking for actual hands-on governance guidance. It is an excellent choice for people who like action-focused concepts or who want to go beyond documentation and theory. This book is a fantastic choice for anyone looking for agile ideas to put into practice without necessarily embarking on a lengthy governance exercise upfront.

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How to design and implement the right software build and release process for your environment. The Buildmeister's Guide researches and documents the build process in detail. Its aim is to increase awareness of the build process and to raise the level and quality of discussion that occurs around it. The book looks at how the build process affects and is affected by different software development languages and methods, and what intrinsic value a "well defined" build process can bring to an organization. It defines the set of skills and capabilities that implementers of the build process should possess, and also a framework for a generic best practice build process with tips and guidelines on how to implement it. Whether you are a software developer, manager or integrator, this book will help you understand the importance of the build process to your organization and what role you will need to play in it.

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.

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.

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.

Annotation Best practice management and development of Visual Studio .NET 2005 applications with this easy-to-use SCM tool from Microsoft * SCM fundamentals and strategies clearly explained * Real-world SOA example: a hotel reservation system * SourceSafe best practices across the complete lifecycle * Multiple versions, service packs and product updates.

Engineering MLOps will help you get to grips with ML lifecycle management and MLOps implementation for your organization. This book presents comprehensive insights into MLOps coupled with real-world examples that will teach you how to write programs, train robust and scalable ML models, and build ML pipelines to train, deploy, and monitor ...

Deploy web applications on Azure using DevOps tools. This book gives solutions to real-world Cloud deployment scenarios which will enable you to become adept in DevOps work for Azure. You'll start by seeing an overview of DevOps for Azure deployments where you will also survey the available tools, including Octopus Deploy and TeamCity. Here, you will learn how to use TeamCity as a CI tool and Octopus Deploy as release-management and CD software to get your package deployed on Azure Web Application. Next, the authors demonstrate using the Microsoft Visual Studio Team Services (VSTS) integrated developer platform. Finally, you will go through some real-world scenarios using DevOps tools to deploy web applications on Azure. To do this, you will create resources in Azure and integrate with an open source buildout. After reading this book, you will be ready to use various tools in a DevOps environment to support an Azure deployment. What You Will Learn Carry out a survey of DevOps tools Build a DevOps solution using standalone DevOps tools – TeamCity and Octopus Deploy Use an integrated DevOps platform – VSTS Build out an Azure deployment using open source code and VSTS Who This Book Is For Developers and release engineers. Also, project managers will find it useful to understand the workflow in DevOps.

This book is the authoritative source on implementing Continuous Delivery practices using Microsoft's Visual Studio and TFS 2015. Microsoft MVP authors Mathias Olausson and Jakob Ehn translate the theory behind this methodology and show step by step how to implement Continuous Delivery in a real world environment. Building good software is challenging. Building high-quality software on a tight schedule can be close to impossible. Continuous Delivery is an agile and iterative technique that enables developers to deliver solid, working software in every iteration. Continuous delivery practices help IT organizations reduce risk and potentially become as nimble, agile, and innovative as startups. In this book, you'll learn: What Continuous Delivery is and how to use it to create better software more efficiently using Visual Studio 2015 How to use Team Foundation Server 2015 and Visual Studio Online to plan, design, and implement powerful and reliable deployment pipelines Detailed step-by-step instructions for implementing Continuous Delivery on a real project

An indispensable resource for business leaders, IT professionals and project managers working to effect positive change in their organizations, this innovative book presents a new paradigm for the management of evolving business and IT architectures. Enterprise release management takes a holistic view of change that offers a synthesis of traditional management approaches, including project and change management, enterprise architecture, and development practices like configuration and release management. Unlike many books that simply focus on portfolio planning, this practical reference establishes an end to end release framework which ensures initiatives are planned and prioritized to streamline portfolio execution and delivery. Benefits of the release-centric approach advocated include reduced execution and operational risk, improved demand management and optimized release throughput. This unique book offers a fresh enterprise perspective that addresses strategic change and the release life cycle, providing executives and managers with the tools they need to chart and track the course of their business.

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.

A very practical publication that contains the knowledge of a large number of experts from all over the world. Being independent from specific frameworks, and selected by a large board of experts, the contributions offer the best practical guidance on the daily issues of the IT manager.

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

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

Set up Release Management with this Handbook and achieve: - Automated software releases.

Audited traceable, role-based security - Release Management - plan, deploy and manage releases to system users - Version Control, Track all changes and comply. Use your current versioning tool - ITIL Release Management - Streamline software/hardware deployment - Integrate Release Management Tools. Reduce risk, drive efficiency with release management - Automate Software Releases and Boost Build-Test-Deploy Processes - Orchestrated Software Development and Deployment - Release Management Industry standards and best practice - Agile Release Management - Automate and Audit software releases, Harmonize agility and control To come to fruition, software projects take investment, support, nurturing and a lot of hard work and dedication. Good release management practices ensure that when your software is built, it will be successfully deployed to the people who want to use it. You have the opportunity to satisfy existing customers and hopefully to win new ones. Release management is a really important part of any software project and is not often given the attention it deserves. Good release management takes hard work, resolve and great communication; however, the greatest skill is the ability to review, learn and adapt improvements. Often forgotten or ignored in many IT Service Management implementations or initiatives, Release and Deployment can be mistakenly seen as the poor cousin of Change Management, of less importance and priority to both the business and IT organizations. Much of the confusion and misunderstanding is perpetuated by the idea that Release and Deployment only focuses on the actual distribution of changes to the live environment. While timely and accurate distribution is indeed a goal of the process, the actual scope includes all of the activities, systems and functions required to build, test and deploy a release into product and enable effective handover to service operations. In conjunction with the use of Change Management, Release and Deployment will enhance an organization's capabilities to develop, compile, reuse, distribute and rollback releases in accordance with defined policies that improve efficiency and reduce business disruption. Typical benefits seen as a result of improved Release and Deployment are: - Delivering change, faster, at optimum cost and minimized risk - Assuring customers and users can use the new or changed service in a way that supports the business goals - Improving consistency in implementation approach across the business change, service teams, suppliers and customers - Contributing to meeting auditable requirements for traceability through Service Transition. Well planned and implemented release and deployment will make a significant difference to an organization's service costs.

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