

Continuous Delivery With Visual Studio Alm 2015

Use Visual Studio App Center with Xamarin Forms to set up a DevOps CI/CD pipeline, set up your mobile builds on either iOS or Android, set up Android and Apple certificates and provisioning profiles, distribute your app to your developers and testers, capture analytics and crashes from your users, communicate to your users with push notifications, and run UI tests on the Microsoft cloud. You will see how to automate and manage the life cycle of your apps through Microsoft's Cloud Service, with a focus on integrating App Center into your Xamarin Forms apps with clear, practical examples. As you follow along with the sample app, you will see how easy it is to configure your builds, to test the sample app on various iOS and Android devices on the App Center cloud, and to distribute your app to real devices. Whether you are a developer on a small team or a startup or an architect in a large organization curious about the benefits of Visual Studio App Center, after finishing this book, you will be confident in setting up App Center on your next mobile project. Come join me on this journey through Visual Studio App Center with Xamarin Forms.

What You Will Learn

- Create a DevOps CI/CD pipeline for your mobile app on both iOS and Android devices
- Save money without buying multiple iOS and Android devices and instead run cloud UI tests
- Stay informed about build successes and failures by integrating App Center with Slack
- Set up groups and add team members to your groups on App Center
- Distribute your app to your team on either iOS or Android devices
- Capture important user events in your code and report to App Center
- Give a friendly user experience by handling crashes gracefully and reporting to App Center
- Keep and analyze your user's data on Azure by setting up automatic data export to Azure
- Communicate with your users using iOS and Android notification services from App Center
- Give your users a better experience by sending silent push notifications
- Include custom data in your push notifications

Who This Book Is For

Xamarin Forms mobile developers with previous experience using the Xamarin framework.

The #1 guide to using Visual Studio 2010 in team development: insider coverage of this huge release, from the leader of the VSTS team * *Focuses on succeeding with new VS 2010 ALM products in real-world environments, with exclusive 'Lessons Learned at Microsoft'.

*Thoroughly covers VS 2010's massive new capabilities for team development. *Contains extensive new coverage of implementing Scrum and related practices. *Covers the entire lifecycle: requirements, architecture, construction, build, test, and more This is the most practical, valuable guide for every member of the software team who intends to run or participate in software projects using Microsoft's Visual Studio 2010. Written by a top Microsoft Visual Studio development team leader and a leading Visual Studio implementation consultant, it focuses on the real challenges development organizations face. The authors identify powerful lessons and best practices learned at Microsoft, and cover the entire development lifecycle, from requirements gathering through testing and beyond. This edition adds extensive coverage of VS 2010's extensive new team features, as well as new coverage of using VS 2010 to actively support teams that practice Scrum. Throughout, the authors focus on showing how to use VS 2010 to reduce waste, increase transparency, and accelerate the flow of value to the end customer. Coverage includes:

- *Requirements: vision, user stories, use cases, storyboards, satisfiers/dissatisfiers, and more
- *Running the project: self-managing teams, metrics, sprints, and dashboards
- *'Value-up' views of software architecture, construction, and testing.
- *Build and lab: check-in, team build, continuous integration, build verification tests, reporting, deployment, and lab automation/virtualization.
- *Troubleshooting the project: overcoming issues ranging from scope creep to build failures

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.

Continuous Delivery with Visual Studio ALM 2015Apress

"In this Continuous Delivery with the Windows Stack training course, expert authors Marcel de Vries and René van Osnabrugge will teach you everything you need to know about deployment with Windows, Azure, and Visual Studio. This course is designed for users that are already familiar with the Windows Stack. You will start by learning about continuous delivery, then jump into learning about version control as the foundation of continuous delivery. From there, Marcel and René will teach you how to test within a continuous delivery pipeline, including how to categorize different test types, start test automation with unit tests, and use executable specifications. This video tutorial also covers release management and feedback loops. Finally, you will learn advanced techniques, such as feature toggles, deployment slots, and traffic manager."--Resource description page.

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

Use Visual Studio® Team Foundation Server 2012 and Agile Methods to Deliver Higher Value Software Faster This is the definitive guide to applying agile development and modern software engineering practices with Visual Studio Team Foundation Server 2012—Microsoft's complementary Application Lifecycle Management (ALM) platform. Written by the Microsoft Visual Studio product owner and a long-time Team Foundation Server implementation specialist, it focuses on solving real development challenges, systematically eliminating waste, improving transparency, and delivering better software more quickly and painlessly. Coverage includes • Accelerating the "flow of value" to customers, with a transparent backlog, PowerPoint Storyboarding, VS 2012 feedback requests, and a "usability lab" right into your customers' hands • Driving quality upstream to uncover hidden architectural patterns, ensure cleaner code, fix multiple recurring "cloned" bugs at once, ensure the definition of done with continuous integration and deployment in a reliable build process • Eliminating "no repro" bugs with VS 2012's six powerful mechanisms for more accurate fault identification and use of

virtualized test environments • Using Scrum or other Agile methods with Process Templates effectively across distributed teams in large organization by automating burndowns and dashboards to identify “early warning signals” of emerging problems with quality or maintainability • Staying in the groove by storing the state of your work and environment with shelvesets, to let you handle interruptions smoothly • Leveraging VS 2012’s new support for multiple Microsoft and open source unit testing frameworks in your IDE and continuous integration pipeline • Performing exploratory testing to uncover bugs in surprising places and testing immersive Windows 8 apps • Rapidly improving team development and collaboration with the hosted Team Foundation Service Whatever your development role, this book will help you apply modern software development practices using Visual Studio Team Foundation Server 2012 to focus on what really matters: building software that begins delivering exceptional value sooner and keeps delighting customers far into the future.

Prepare for Microsoft Exam 70-532--and help demonstrate your real-world mastery of Microsoft Azure solution development. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Design and implement Websites Create and manage Virtual Machines Design and implement Cloud Services Design and implement a storage strategy Manage application and network services This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for Microsoft Azure developers, solution architects, DevOps engineers, and QA engineers Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft Azure solutions and that you are proficient with tools, techniques, and approaches for building scalable, resilient solutions Developing Microsoft Azure Solutions About the Exam Exam 70-532 focuses on the skills and knowledge needed to develop Microsoft Azure solutions that include websites, virtual machines, cloud services, storage, application services, and network services. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning

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 Over 50 recipes to help you build applications hosted on Serverless architecture

using Azure Functions. About This Book Enhance Azure Functions with continuous deployment using Visual Studio Team Services Learn to deploy and manage cost-effective and highly available serverless applications using Azure Functions This recipe-based guide will teach you to build a robust serverless environment Who This Book Is For If you are a Cloud administrator, architect, or developer who wants to build scalable systems and deploy serverless applications with Azure functions, then this book is for you. Prior knowledge and hands-on experience with core services of Microsoft Azure is required. What You Will Learn Develop different event-based handlers supported by serverless architecture supported by Microsoft Cloud Platform – Azure Integrate Azure Functions with different Azure Services to develop Enterprise-level applications Get to know the best practices in organizing and refactoring the code within the Azure functions Test, troubleshoot, and monitor the Azure functions to deliver high-quality, reliable, and robust cloud-centric applications Automate mundane tasks at various levels right from development to deployment and maintenance Learn how to develop stateful serverless applications and also self-healing jobs using DurableFunctions In Detail Microsoft provides a solution to easily run small segment of code in the Cloud with Azure Functions. Azure Functions provides solutions for processing data, integrating systems, and building simple APIs and microservices. The book starts with intermediate-level recipes on serverless computing along with some use cases on benefits and key features of Azure Functions. Then, we'll deep dive into the core aspects of Azure Functions such as the services it provides, how you can develop and write Azure functions, and how to monitor and troubleshoot them. Moving on, you'll get practical recipes on integrating DevOps with Azure functions, and providing continuous integration and continuous deployment with Visual Studio Team Services. It also provides hands-on steps and tutorials based on real-world serverless use cases, to guide you through configuring and setting up your serverless environments with ease. Finally, you'll see how to manage Azure functions, providing enterprise-level security and compliance to your serverless code architecture. By the end of this book, you will have all the skills required to work with serverless code architecture, providing continuous delivery to your users. Style and approach This recipe-based guide explains the different features of Azure Function by taking a real-world application related to a specific domain. You will learn how to implement automation and DevOps and discover industry best practices to develop applications hosted on serverless architecture using Azure functions. Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications, familiarize yourself with diverse third-party modules, and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps, and Docker Container Understand how to monitor applications

deployed in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps using Nagios, New Relic, Microsoft Azure, and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands-on with tools such as Jenkins 2 and Chef, and Cloud platforms such as AWS and Microsoft Azure, Docker, New Relic, Nagios, and their modules to host, deploy, monitor, and manage their web applications, then this book is for you.

What You Will Learn Grasp Continuous Integration for a JEE application—create and configure a build job for a Java application with Maven and with Jenkins 2.0 Create built-in delivery pipelines of Jenkins 2 and build a pipeline configuration for end-to-end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms—install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure Web Apps, and a Docker container Monitor infrastructure, application servers, web servers, and applications with the use of open source monitoring solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation—create parameterized build jobs for end-to-end automation In Detail The DevOps culture is growing at a massive rate, as many organizations are adopting it. However, implementing it for web applications is one of the biggest challenges experienced by many developers and admins, which this book will help you overcome using various tools, such as Chef, Docker, and Jenkins. On the basis of the functionality of these tools, the book is divided into three parts. The first part shows you how to use Jenkins 2.0 for Continuous Integration of a sample JEE application. The second part explains the Chef configuration management tool, and provides an overview of Docker containers, resource provisioning in cloud environments using Chef, and Configuration Management in a cloud environment. The third part explores Continuous Delivery and Continuous Deployment in AWS, Microsoft Azure, and Docker, all using Jenkins 2.0. This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands-on projects. You will be exposed to real-world project scenarios that are progressively presented from easy to complex solutions. We will teach you concepts such as hosting web applications, configuring a runtime environment, monitoring and hosting on various cloud platforms, and managing them. This book will show you how to essentially host and manage web applications along with Continuous Integration, Cloud Computing, Configuration Management, Continuous Monitoring, Continuous Delivery, and Deployment.

Style and approach This is a learning guide for those who have a basic knowledge of application deployment, configuration management tools, and Cloud computing, and are eager to leverage it to implement DevOps for web applications using end-to-end automation and orchestration.

"Microsoft provides a solution to easily run small segments of code in the cloud with Azure Functions. Azure Functions provides solutions for processing data, integrating systems, and building simple APIs and microservices. The course starts with intermediate-level videos on cloud application development along with testing Azure Functions on a staged environment and load-testing Azure Functions using VSTS. Then, you'll delve into the core aspects of Azure Functions such as the services it provides, how you can develop and write Azure functions. Moving on, practical videos demonstrate how to implement best practices by handling massive ingress for IoT and similar scenarios. By the end of this video, you will have all the skills required to work with serverless code architectures and provide continuous delivery to your users."--Resource description page.

This ebook walks you through a patterns-based approach to building real-world cloud solutions. The patterns apply to the development process as well as to architecture and coding practices. The content is based on a presentation developed by Scott Guthrie and delivered by him at the Norwegian Developers Conference (NDC) in June of 2013 (part 1, part 2), and at Microsoft Tech Ed Australia in September 2013 (part 1, part 2). Many others updated and augmented the content while transitioning it from video to written form. Who should read this book Developers who are curious about developing for the cloud, are considering a move to the cloud, or are new to cloud development will find here a concise overview of the most important concepts and practices they need to know. The concepts are illustrated with concrete examples, and each chapter includes links to other resources that provide more in-depth information. The examples and the links to additional resources are for Microsoft frameworks and services, but the principles illustrated apply to other web development frameworks and cloud environments as well. Developers who are already developing for the cloud may find ideas here that will help make them more successful. Each chapter in the series can be read independently, so you can pick and choose topics that you're interested in. Anyone who watched Scott Guthrie's "Building Real World Cloud Apps with Windows Azure" presentation and wants more details and updated information will find that here. Assumptions This ebook expects that you have experience developing web applications by using Visual Studio and ASP.NET. Familiarity with C# would be helpful in places. A practical guide for Visual Studio 2019 and Visual Studio Code developers who want to advance their knowledge of how to leverage code generation and how to scan their code for security vulnerabilities.

Learn the details of the most highly recommended practices of software development using the latest version of Visual Studio 2015. Recommended practices are grouped by development phase and explained in far more detail than the typical tips and tricks compilations. This book also contains detailed coverage of recognized patterns and practices used to create software in a timely manner with expected quality in the context of using specific Visual Studio 2015

features. Creating software is part defined process and part empirical process. While there is no single “best” process to employ in all development scenarios, MVP author Peter Ritchie helps readers navigate the complexity of development options and decide which techniques and Visual Studio 2015 features to use based on the needs of their particular project. Readers will learn practices such as those related to working in teams, design and architecture, refactoring, source code control workflows, unit testing, performance testing, coding practices, use of common patterns, code analysis, IDE extensions, and more. What You Will Learn Use patterns and practices within Visual Studio Implement practices of software creation Work in teams Develop workflows for software projects Who This Book Is For Beginning and intermediate software developers and architects Pro Team Foundation Service gives you a jump-start into Microsoft’s cloud-based Application Lifecycle Management platform, taking you through the different stages of software development. Every project needs to plan, develop, test and release software and with agile practices often at a higher pace than ever before. Microsoft's Team Foundation Service is a cloud-based platform that gives you tools for agile planning and work tracking. It has a code repository that can be used not only from Visual Studio but from Java platforms and Mac OS X. The testing tools allow testers to start testing at the same time as developers start developing. The book also covers how to set up automated practices such as build, deploy and test workflows. This book: Takes you through the major stages in a software development project. Gives practical development guidance for the whole team. Enables you to quickly get started with modern development practices. With Microsoft Team Foundation Service comes a collaboration platform that gives you and your team the tools to better perform your tasks in a fully integrated way. What you’ll learn What ALM is and what it can do for you. Leverage a cloud-based ALM platform for quick improvements in your development process. Improve your agile development process using integrated tools and practices. Develop automated build, deployment and testing processes. Integrate different development tools with one collaboration platform. Get started with ALM best-practices first time round. Who this book is for Pro Team Foundation Service is for any development team that wants to take their development practices to the next level. Microsoft Team Foundation Service is an excellent platform for managing the entire application development lifecycle and being a cloud-based offering it is very easy to get started. Pro Team Foundation Service is a great guide for anyone in a team who wants to get started with the service and wants to get expert guidance to do it right. Table of Contents Introduction to Application Lifecycle Management Introduction to Agile Planning, Development, and Testing Deciding on a Hosted Service Getting Started Working with the Initial Product Backlog Managing Team and Alerts Initial Sprint Planning Running the Sprint Kanban Engaging the Customer Choosing Source Control Options Working with Team Foundation Version Control in Visual Studio Working with Git in Visual Studio Working in Heterogeneous Environments

Configuring Build Services Working with Builds Customizing Builds Continuous Deployment Agile Testing Test Management Lab Management

Step-by-step guide to all the tools and extensions in the Visual Studio 2019 IDE

- Key featuresa- Create and use custom IDE extensionsa- Find, download, and use the best IDE extensions for web, mobile, Azure, and Windowsa- Enhance programming experience and time with debugging toolsa- Enhance coding capabilities with coding toolsa- Test projects proactivelya- Create powerful web, mobile, and Azure solutions for the real world

DescriptionThis book peeks into every corner of the Visual Studio IDE and will help you get started with the latest 2019 version. Right from installation, you'll discover new features within the tool and the optimal way to use the features you may already know. You'll learn, for example, how to extend Visual Studio with your own customizations, so that you can make it perform the way you want. You will then explore everything about NuGet package, test applications using Live Unit Testing, and learn how to make code templates using the T4 code generation tool. You'll get to grips with the richer JavaScript IntelliSense, which will help you focus more on coding. Moving on, you'll learn to work with the dedicated workloads for data storage and data science. You will also review the more advanced architecture tools concealed within the IDE and finally create cloud-first applications powered by Microsoft Azure using the built-in suite of Azure tools.

What will you learnBy the end of the book, you will be able to tackle any solution for any platform head-on. You will create real-world solutions from start to finish. By using the tools and extensions outlined in this book, you will be able to code better and faster, debug better, share your code with more peers, test your code better, and install or publish your apps quicker and without issues.

Who this book is forThe book is intended for any .NET developer. You can be a seasoned developer or a newbie just starting out. This book will play a pivotal role in presenting all the tools you need to become a better developer.

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About the authorOckert du Preez is a self-taught developer who started learning programming since the days of QBasic. He has written several articles over the years detailing his programming quests and adventures. .NET is his second love, just after his wife and kid. He has always been an avid supporter of .NET since the beginning, and is an expert in VB and C#. He was given the Microsoft Most Valuable Professional Award for .NET (2008-2017). He has worked as a moderator and an article reviewer and currently writes articles for CodeGuru, Developer.com, DevX, and the Database journal.

His blog:

<https://www.codeguru.com/member.php/Hannes+DuPreez/>

Today's world is all about perfection, and there are hundreds of applications that are released each day out of which only a few succeed. Making sure that the app looks, performs, and behaves as expected is one of the biggest challenge developers face today.

Using agile methods and the tools of Visual Studio 2010, development teams can deliver higher-value software faster, systematically eliminate waste, and increase transparency throughout the entire development lifecycle. Now, Microsoft Visual Studio product owner Sam Guckenheimer and leading Visual Studio implementation consultant Neno Loje show how to make the most of Microsoft's new Visual Studio 2010 Application Lifecycle Management (ALM) tools in your environment. This book is the definitive guide to the application of agile development with Scrum and modern software engineering practices using Visual Studio 2010. You'll learn how to use Visual Studio 2010 to empower and engage multidisciplinary, self-managing teams and provide the transparency they need to maximize productivity. Along the way, Guckenheimer and Loje help you overcome every major impediment that leads to stakeholder dissatisfaction—from mismatched schedules to poor quality, blocked builds to

irreproducible bugs, and technology “silos” to geographic “silos.” Coverage includes • Accelerating the “flow of value” to customers in any software project, no matter how large or complex • Empowering high-performance software teams and removing overhead in software delivery • Automating “burndowns” and using dashboards to gain a real-time, multidimensional view of quality and progress • Using Visual Studio 2010 to reduce or eliminate “no repro” bugs • Automating deployment and virtualizing test labs to make continuous builds deployable • Using Test Impact Analysis to quickly choose the right tests based on recent code changes • Working effectively with sources, branches, and backlogs across distributed teams • Sharing code, build automation, test, project and other data across .NET and Java teams • Uncovering hidden architectural patterns in legacy software, so you can refactor changes more confidently • Scaling Scrum to large, distributed organizations Whatever your discipline, this book will help you use Visual Studio 2010 to focus on what really matters: building software that delivers exceptional value sooner and keeps customers happy far into the future.

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.

Build, package, and deploy applications as easily manageable and shippable containers. About This Book Discover the secret to building highly portable apps that run on any machine with Windows Server 2016 anywhere, from laptops, desktop servers, and public or private clouds, without any changes to the code Build your company cost-effective, container-based apps that support large-scale, virtual cloud environments The most up-to-date help on the market, offering developers expert guidance in building and shipping high-quality apps, and also helping admins create infrastructure that's simple to maintain Who This Book Is For This book is for application developers with a basic programming knowledge of C#, ASP.NET, and PowerShell. IT Administrators or DevOps engineers with basic PowerShell experience can benefit by extending their learning to use PowerShell to manage containers on Windows environments and use additional management tools. What You Will Learn Build and deploy ASP.NET web applications as Windows Containers on Windows 10 (Desktop) and Azure using Visual Studio 2015, Docker, and PowerShell Build and manage custom images using Windows Server Core base OS image and Docker CLI, publish images to Docker, tag images, author Docker files, and so on Create enterprise-scale, production-grade container environments using Redis Cache containers and SQL Server containers with storage volumes, set up

custom container networks, continuous integration, and deployment pipelines using VSTS, Azure, and Git Deploy a composite container environment using Docker Compose on Windows Learn to build applications using Microsoft's thinnest server platform - Nano Servers. Build custom Nano Server images and Nano Containers using Windows PowerShell and configure using PowerShell Core, DSC In Detail Windows Server Containers are independent, isolated, manageable and portable application environments which are light weight and shippable. Decomposing your application into smaller manageable components or MicroServices helps in building scalable and distributed application environments. Windows Server Containers have a significant impact on application developers, development operations (DevOps) and infrastructure management teams. Applications can be built, shipped and deployed in a fast-paced manner on an easily manageable and updatable environment. Learning Windows Server Containers teaches you to build simple to advanced production grade container based application using Asp.Net Core, Visual Studio, Azure, Docker and PowerShell technologies. The book teaches you to build and deploy simple web applications as Windows and Hyper-V containers on Windows 10 and Windows Server 2016 on Azure. You will learn to build on top of Windows Container Base OS Images, integrate with existing images from Docker Hub, create custom images and publish to Hub. You will also learn to work with storage containers built using Volumes and SQL Server as container, create and configure custom networks, integrate with Redis Cache containers, configure continuous integration and deployment pipelines using VSTS and Git Repository. Further you can also learn to manage resources for a container, setting up monitoring and diagnostics, deploy composite container environments using Docker Compose on Windows and manage container clusters using Docker Swarm. The last chapter of the book focuses on building applications using Microsoft's new and thinnest server platform – Nano Servers. Style and approach This hands-on tutorial helps you get started with Windows Server containers, the new trend in the container market. This example-driven guide is packed with real-world scenarios of Windows Server containers in production environments.

As more software projects adopt a continuous delivery cycle, testing threatens to be the bottleneck in the process. Agile development frequently revisits each part of the source code, but every change requires a re-test of the product. While the skills of the manual tester are vital, purely manual testing can't keep up. Visual Studio 2012 provides many features that remove roadblocks in the testing and debugging process and also help speed up and automate retesting. This guide shows you how to record and play back manual tests to reproduce bugs and verify the fixes, transform manual tests into code to speed up re-testing, monitor your project in terms of tests passed, create and use effective unit tests, load, and performance tests, run build-deploy-test workflows on virtual lab environments, and evolve your testing process to satisfy the demands of agile and continuous delivery. You'll learn how to set up all the tools you need for testing in Visual Studio 2012 and 2010, including Team Foundation Server, the build system, test controllers and agents, SCVMM and Hyper-V. Each chapter is structured so that you can move gradually from entry-level to advanced usage.

"Microsoft provides a solution you can use to easily run small segments of code in the Cloud: Azure Functions. Azure Functions provides solutions for processing data, integrating systems, and building simple APIs and microservices. The course starts with intermediate-level videos on cloud application development, along with configuring notifications using the SendGrid and Twilio services and the key features of Azure Functions. Then, you'll delve into the core aspects of Azure Functions (such as the services it provides and how you can develop and write Azure functions) and explore continuous integration and continuous deployment with Visual Studio Team Services. By the end of this video, you will have all the skills required to work with serverless code architectures, thus providing continuous delivery to your users."--Resource description page.

Accelerate and Automate Build, Deploy, and Management of applications to achieve High Availability. About This Book This guide highlights tools that offer development and deployment environments for application services Secure and continuously monitor your web application in order to make it highly available Use Visual Studio Team Services for Continuous Integration and Continuous Development to expedite your application life cycle management process Use Microsoft Azure App Services (Azure Web Apps / Azure Websites), PaaS offering from Microsoft to deploy web application Who This Book Is For This book is for DevOps engineers, system administrators, and developers (.net) who want to implement DevOps for their organization. You do not need to have any knowledge of VSTS or Azure App Services (Azure Web Apps / Azure Websites). What You Will Learn Explore the features of PaaS and aPaaS in DevOps Use Visual Studio Team Services (VSTS) to manage versions of code and integrating VSTS with Eclipse IDE Understand and configure Continuous Integration in VSTS Review Unit Test Execution for Automated Testing Create different environments that can be used to continuous deploy a web application Configure Roll-based Access to enable secure access for Azure Web Apps Create and configure the App Service Environment to enhance security Understand the execution of the end-to-end automation process Conduct Performance Testing using JMeter Discover the different monitoring options available in Microsoft Azure Portal In Detail This book will teach you all about the Visual Studio Team Services and Microsoft Azure PaaS offerings that support Continuous Integration, Continuous Delivery, Continuous Deployment, and execution in the cloud with high availability, disaster recovery, and security. You will first be given a tour of all the concepts and tools that Microsoft Azure has to offer and how these can be used in situations to cultivate the DevOps culture. You'll be taught how to use and manage Visual Studio Team Services (VSTS) and about the structure of the sample application used throughout the book. You will become familiar with the nitty gritty of Continuous Integration and Continuous Development with VSTS and Microsoft Azure Apps. You will not only learn how to create App service environments, but also how to compare Azure Web Apps and App Service Environments to deploy web applications in a more secure environment. Once you have completed Continuous Integration and created the Platform for application deployment, you will learn more about the final stepping stone in achieving end-to-end automation using approval-based Continuous Delivery and Deployment. You will then learn about Continuous Monitoring, using the monitoring and notification options provided by Microsoft Azure and Visual Studio Team Services. Style and Approach This book is an easy-to-follow guide filled with examples and real-world applications for gaining an in-depth understanding of Microsoft Azure and Visual Studio. This book will help you leverage Microsoft Azure and Visual Studio using real-world examples.

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.

Sharpen your DevOps knowledge with DevOps Bootcamp About This Book Improve your organization's performance to ensure smooth production of software and services. Learn how Continuous Integration and Continuous Delivery practices can be utilized to cultivate the DevOps culture. A fast-paced guide filled with illustrations and best practices to help you consistently ship quality software. Who This Book Is For The book is aimed at IT Developers and Operations—administrators who want to quickly learn and implement the DevOps culture in their organization. What You Will Learn Static Code Analysis using SONarqube Configure a Maven-based JEE Web Application Perform Continuous Integration using Jenkins and VSTS Install and configure Docker Converge a Chef node using a Chef workstation Accomplish Continuous Delivery in Microsoft Azure VM and Microsoft Azure App Services (Azure Web Apps) using Jenkins Perform Load Testing using Apache JMeter Build and Release Automation using Visual Studio Team Services Monitor Cloud-based resources In Detail DevOps Bootcamp delivers practical learning modules in manageable chunks. Each chunk is delivered in a day, and each day is a productive one. Each day builds your competency in DevOps. You will be able to take the task you learn every day and apply it to cultivate the DevOps culture. Each chapter presents core concepts and key takeaways about a topic in DevOps and provides a series of hands-on exercises. You will not only learn the importance of basic concepts or practices of DevOps but also how to use different tools to automate application lifecycle management. We will start off by building the foundation of the DevOps concepts. On day two, we will perform Continuous Integration using Jenkins and VSTS both by configuring Maven-based JEE Web Application?. We will also integrate Jenkins and Sonar qube for Static Code Analysis. Further, on day three, we will focus on Docker containers where we will install and configure Docker and also create a Tomcat Container to deploy our Java based web application. On day four, we will create and configure the environment for application deployment in AWS and Microsoft Azure Cloud for which we will use Infrastructure as a Service and Open Source Configuration Management tool Chef. For day five, our focus would be on Continuous Delivery. We will automate application deployment in Docker container using Jenkins Plugin, AWS EC2 using Script, AWS Elastic Beanstalk using Jenkins Plugin, Microsoft Azure VM using script, and Microsoft Azure App Services Using Jenkins. We will also configure Continuous Delivery using VSTS. We will then learn the concept of Automated Testing on day six using Apache JMeter and URL-based tests in VSTS. Further, on day seven, we will explore various ways to automate application lifecycle management using orchestration. We will see how Pipeline can be created in Jenkins and VSTS, so the moment Continuous? Integration is completed successfully, Continuous Delivery will start and application will be deployed. On the final day, our focus would be on Security access to Jenkins and Monitoring of CI resources, and cloud-based resources in AWS and Microsoft Azure Platform as a Service. Style and Approach This book is all about fast and intensive learning. This means we don't waste time in helping readers get started. The new content is basically about filling in with highly-effective examples to build new things, solving problems in newer and unseen ways, and solving real-world examples.

You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development process, you can make changes, both large and small, throughout your project's life cycle that will lead to better—quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing

interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management tool that has practical implications for the whole team—from architects to designers, from developers to testers. Pro Application Lifecycle Management with Visual Studio 2012 focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team Foundation Server. It demonstrates the key concepts and techniques of ALM at first with a guide to the overall methodology, and then delves into architecture and testing--illustrating all of the concepts, tips and tricks using the tools TFS provides. The book serves as a complete guide to the ALM style--with no fluff and many relevant code samples and examples. After reading the book, you will understand how TFS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors.

If you are a .NET developer who wants to develop end-to-end RESTful applications in the cloud, then this book is for you. A working knowledge of C# will help you get the most out of this book.

Normal 0 false false false MicrosoftInternetExplorer4 Microsoft Visual Studio 2012 significantly improves developer productivity across virtually all application lifecycle management tasks, while providing first-class support for Windows 8, Windows Phone, WindowsRT, and Windows Azure cloud development. This end-to-end deep dive will help working developers squeeze maximum productivity out of Microsoft's powerful new toolbox. The authors combine authoritative and detailed information about Microsoft's latest IDE, with extensive insights and best practices drawn from decades of development experience. Developers will quickly get comfortable with Visual Studio 2012's revamped interface and discover multiple opportunities to leverage the updated .NET 4.5 platform it supports. By focusing entirely on Visual Studio 2012 Professional, the authors have gone deeper into Microsoft's core product than ever before. You'll find expert coverage of everything from debugging through refactoring, automation through enterprise-class development. Throughout, this book's focus is relentlessly practical: how to apply Microsoft's tools to build better software, faster. Detailed information on how to...

- Use Visual Studio 2012's new interface to significantly improve your productivity
- Make the most of VS 2012's new WPF-based code editor
- Work with solutions, projects, browsers, explorers, and designers
- Create modern "Windows Store" applications for Windows 8 and Windows RT apps with VS 2012 and Windows Runtime Library
- Develop websites with ASP.NET, ASP.NET MVC, and the Razor View Engine
- Create richer, smarter user interfaces for software of all types
- Build robust service oriented architecture (SOA)-based systems
- Construct data-centric applications with LINQ and Entity Framework
- Develop SharePoint and other Microsoft Office business applications
- Write Windows Azure applications that live in the cloud
- Instrument, analyze, and test your software
- Refactor code for greater robustness, maintainability, and performance
- Leverage brand-new improvements to Windows Workflow and Windows Communication Foundation

Use VS 2012's one-click web deployment capabilities Extend VS 2012 with Managed Extensibility Framework (MEF) and Automation Object Model

Continuous integration is a software engineering process designed to minimize "integration hell." It's a coordinated development approach that blends the best practices in software delivery. For .NET developers, especially, adopting these new approaches and the tools that support them can require rethinking the development process altogether. Continuous Integration in .NET is a tutorial for developers and team leads that teaches readers how to re-imagine their development strategy by creating a consistent continuous integration process. This book shows how to build on the tools they already know - .NET Framework and Visual Studio - and to use powerful software like MSBuild, Subversion, TFS 2010, Team City,

CruiseControl.NET, NUnit, and Selenium. 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. Kubernetes is the operating system of the cloud-native world, providing a reliable and scalable platform for running containerized workloads. This book shows developers and operations staff how to apply industry-standard DevOps practices to Kubernetes in a cloud-native context. You'll learn all about the Kubernetes ecosystem and discover battle-tested solutions to everyday problems. In this friendly, pragmatic book, cloud experts John Arundel and Justin Domingus show you what Kubernetes can do—and what you can do with it. You'll build, step by step, an example cloud-native application and its supporting infrastructure, along with a development environment and continuous deployment pipeline that you can use for your own applications. Understand containers and Kubernetes from first principles—no experience necessary Run your own clusters or choose a managed Kubernetes service from Amazon, Google, and others Design your own cloud-native services and infrastructure Use Kubernetes to manage resource usage and the container lifecycle Optimize clusters for cost, performance, resilience, capacity, and scalability Learn the best tools for developing, testing, and deploying your applications Apply the latest industry practices for observability and monitoring Secure your containers and clusters in production Adopt DevOps principles to help make your development teams lean, fast, and effective

With this ebook, the ALM Rangers share their best practices in managing solution requirements and shipping solutions in an agile environment, an environment where transparency, simplicity, and trust prevail. The ebook is for Agile development teams and their Scrum Masters who want to explore and learn from the authors' "dogfooding" experiences and their continuous adaptation of software requirements management. Product Owners and other stakeholders will also find value in this ebook by learning how they can support their Agile development teams and by gaining an understanding of the constraints of open-source community projects.

Design an enterprise solution from scratch that allows the migration of a legacy application. Begin with the planning and design phase and be guided through all the stages of selecting the architecture framework that fits your enterprise. Join Microsoft MVP Josh Garverick as he addresses all major areas of design and implementation—application, infrastructure, data, security, and deployment—while leveraging the power and tools of Visual Studio Team Services (VSTS) to bring DevOps to the forefront. With an emphasis on principles and best practices of enterprise design, you will discover how to recognize existing patterns within the legacy platform and to identify potential risks, bottlenecks, and candidates for automation. What You'll Learn Accurately and completely capture baseline information about a legacy system Leverage enterprise patterns for constructing next-generation platforms in the cloud Design, plan, and implement deployment pipelines to enable continuous delivery Identify and implement cloud-based platform components to reduce total cost of ownership Understand testing and validation: iterative component authoring, monitoring, deployment, and performance Price and perform capacity planning for cloud-based infrastructure and workloads Who This Book Is For Enterprise architects and IT professionals who are required to keep legacy applications relevant in today's cloud-first world

Understand various tools and practices for building a continuous integration and delivery pipeline effectively Key Features Get up and running with the patterns of continuous integration Learn Jenkins UI for developing plugins and build an effective Jenkins pipeline Automate CI/CD with command-line tools and scripts Book Description

Hands-On Continuous Integration and Delivery starts with the fundamentals of continuous integration (CI) and continuous delivery (CD) and where it fits in the DevOps ecosystem. You will explore the importance of stakeholder collaboration as part of CI/CD. As you make your way through the chapters, you will get to grips with Jenkins UI, and learn to install Jenkins on different platforms, add plugins, and write freestyle scripts. Next, you will gain hands-on experience of developing plugins with Jenkins UI, building the Jenkins 2.0 pipeline, and performing Docker integration. In the concluding chapters, you will install Travis CI and Circle CI and carry out scripting, logging, and debugging, helping you to acquire a broad knowledge of CI/CD with Travis CI and CircleCI. By the end of this book, you will have a detailed understanding of best practices for CI/CD systems and be able to implement them with confidence. What you will learn

- Install Jenkins on multiple operating systems
- Work with Jenkins freestyle scripts, pipeline syntax, and methodology
- Explore Travis CI build life cycle events and multiple build languages
- Master the Travis CI CLI (command-line interface) and automate tasks with the CLI
- Use CircleCI CLI jobs and work with pipelines
- Automate tasks using CircleCI CLI and learn to debug and troubleshoot
- Learn open source tooling such as Git and GitHub
- Install Docker and learn concepts in shell scripting

Who this book is for Hands-On Continuous Integration and Delivery is for system administrators, DevOps engineers, and build and release engineers who want to understand the concept of CI and gain hands-on experience working with prominent tools in the CI ecosystem. Basic knowledge of software delivery is an added advantage.

A guide to mastering Visual Studio 2017

About This Book

- Focus on coding with the new, improved, and powerful tools of VS 2017
- Master improved debugging and unit testing support capabilities
- Accelerate cloud development with the built-in Azure tools

Who This Book Is For .NET Developers who would like to master the new features of VS 2017, and would like to delve into newer areas such as cloud computing, would benefit from this book. Basic knowledge of previous versions of Visual Studio is assumed.

What You Will Learn

- Learn what's new in the Visual Studio 2017 IDE, C# 7.0, and how it will help developers to improve their productivity
- Learn the workloads and components of the new installation wizard and how to use the online and offline installer
- Build stunning Windows apps using Windows Presentation Foundation (WPF) and Universal Windows Platform (UWP) tools
- Get familiar with .NET Core and learn how to build apps targeting this new framework
- Explore everything about NuGet packages
- Debug and test your applications using Visual Studio 2017
- Accelerate cloud development with Microsoft Azure
- Integrate Visual Studio with most popular source control repositories, such as TFS and GitHub

In Detail Visual Studio 2017 is the all-new IDE released by Microsoft for developers, targeting Microsoft and other platforms to build stunning Windows and web apps. Learning how to effectively use this technology can enhance your productivity while simplifying your most common tasks, allowing you more time to focus on your project. With this book, you will learn not only what VS2017 offers, but also what it takes to put it to work for your projects. Visual Studio 2017 is packed with improvements that increase productivity, and this book will get you started with the new features introduced in Visual Studio 2017 IDE and C# 7.0. Next, you will learn to use XAML tools to build classic WPF apps, and UWP tools to build apps targeting Windows 10. Later, you will learn about .NET Core and then explore NuGet, the package manager for the Microsoft development platform. Then, you will familiarize

yourself with the debugging and live unit testing techniques that comes with the IDE. Finally, you'll adapt Microsoft's implementation of cloud computing with Azure, and the Visual Studio integration with Source Control repositories. Style and approach This comprehensive guide covers the advanced features of Visual Studio 2017, and communicates them through a practical approach to explore the underlying concepts of how, when, and why to use it.

Learn everything you need to set up a full-featured, automated pipeline for Xamarin development and deployment. Automate everything from the build step through to deployment and delivery to your customer. If you thought this level of automation could be achieved only by large companies with generous funding, think again! You as a single developer, or working in a small team or company, can automate your processes to punch heavier than your weight. What's more, you can achieve this level of automation completely for free! This hands-on guide takes you step-by-step from setting up your first automated build all the way to integrated unit testing, and finally through to delivering a high-quality app to your testers and end users. The automation presented in this book saves a lot of frustration and recurring work, providing you more time to focus on building the robust and compelling apps that delight your customers and keep you steps ahead of the competition. Not only does this book teach how to get a grip on consistent quality, but it covers the use of HockeyApp to track events and usage, and to report errors and anomalies back to home base for developers to investigate. Many times it's possible to detect and fix errors before a user even notices they are there. This book: Teaches the necessity of an automated development pipeline Helps you set up an automated pipeline for Xamarin development Integrates testing (on physical devices!) to ensure high-quality apps What You'll Learn Why you want an automated development pipeline Obtain and configure the automated tooling Continuously integrate your apps Run automated unit tests Push updates to your customers Monitor and detect errors without user intervention Who This Book Is For App developers looking for ways to ensure consistent quality of work and wanting to know how their apps are doing in actual use by customers

Over 50 practical recipes that will help you develop and deliver high-quality and reliable cloud-centric Azure serverless applications for your organization Key Features Leverage practical use cases to build a robust serverless environment Enhance Azure Functions with continuous deployment using Visual Studio Team Services Deploy and manage cost-effective and highly available serverless applications using Azure Functions Book Description Microsoft provides a solution for easily running small segments of code in the cloud with Azure Functions. The second edition of Azure Serverless Computing Cookbook starts with intermediate-level recipes on serverless computing along with some use cases demonstrating the benefits and key features of Azure Functions. You'll explore the core aspects of Azure Functions, such as the services it provides, how you can develop and write Azure Functions, and how to monitor and troubleshoot them. As you make your way through the chapters, you'll get practical recipes on integrating DevOps with Azure Functions, and providing continuous integration and continuous deployment with Azure DevOps. This book also provides hands-on, step-by-step tutorials based on real-world serverless use cases to guide you through configuring and setting up your serverless environments with ease. You will also learn how to build solutions for complex, real-world, workflow-based scenarios

quickly and with minimal code using Durable Functions. In the concluding chapters, you will ensure enterprise-level security within your serverless environment. The most common tips and tricks that you need to be aware of when working with Azure Functions on production environments will also be covered in this book. By the end of this book, you will have all the skills required for working with serverless code architecture, providing continuous delivery to your users. What you will learn Integrate Azure Functions with other Azure services Understand cloud application development using Azure Functions Employ durable functions for developing reliable and durable serverless applications Use SendGrid and Twilio services Explore code reusability and refactoring in Azure Functions Configure serverless applications in a production environment Who this book is for If you are a cloud administrator, architect, or developer who wants to build scalable systems and deploy serverless applications with Azure Functions, then the Azure Serverless Computing Cookbook is for you. Hands-on experience with Microsoft Azure core services is required.

"React Native is a JavaScript framework that lets you rapidly build native apps for both iOS and Android using a single language. A React native app is not a hybrid app so it's nearly indistinguishable from native apps built with Java and Objective-C. Our course is a fast-paced guide to get you started with React Native and building Native mobile apps. The course will give React developers all they need to build native iOS and Android apps. We won't be covering the basics of JavaScript programming or React. We will delve directly into React Native to build native mobile apps. You will learn to develop apps that are fun, unique, and responsive with React Native. Learn React Native fundamentals to build interactive and user-friendly apps. The course aims at teaching you React Native irrespective of the underlying platform so that you can learn once, write anywhere. This course adopts a practical approach to get you building apps as soon as possible. With this course, you will get minimal theory and maximal action, with compelling illustrative examples and clear explanations."--Resource description page.

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