

Kindle File Format Essential Docker For Aspnet Core Mvc

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Essential Docker for ASP.NET Core MVC-

Adam Freeman 2017-04-06 Find out how to use Docker in your ASP.NET Core MVC applications, and how containers make it easier to develop, deploy and manage those applications in

production environments. Packed with examples and practical demonstrations, this book will help you deploy even large-scale, cross-platform web applications from development into production. Best-selling author Adam Freeman takes you on a whirlwind tour of Docker, from creating a consistent development environment for your team to deploying a project and scaling it up in

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production. By the end of the book, you will have a solid understanding of what Docker does, how it does it and why it is useful when developing and deploying ASP.NET Core MVC applications.

What You Will Learn Gain a solid understanding of Docker: what it is, and why you should be using it for your ASP.NET Core MVC applications

Use Docker to create a development platform for ASP.NET Core MVC so that applications behave consistently across development and production

Use Docker to test, deploy and manage ASP.NET Core MVC containers

Use Docker Swarms to scale up applications to cope with large workloads

Who This Book Is For ASP.NET Core MVC developers who want to use Docker to containerize and manage their applications

Pro ASP.NET Core MVC 2-Adam Freeman
2017-10-24 Now in its 7th edition, the best selling book on MVC is updated for ASP.NET Core MVC 2. It contains detailed explanations of the Core MVC functionality which enables developers to produce leaner, cloud optimized

and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a "host agnostic" framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core MVC. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you

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the knowledge you need. The book includes a fully worked case study of a functioning web application that readers can use as a template for their own projects. What's New in This Edition Fully updated for Visual Studio 2017, C# 7 and .NET Core 2 Coverage of new features such as view filters Wider platform and tooling coverage than ever before, with more on Visual Studio Code and working with .NET Core on non-Windows platforms Docker-based application deployment What You Will Learn Gain a solid architectural understanding of ASP.NET Core MVC Explore the entire ASP.NET MVC Framework as a cohesive whole See how MVC and test-driven development work in action Learn what's new in ASP.NET Core MVC 2 and how best to apply these new features to your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For This book is for web developers with a basic knowledge of ASP.NET and C# who want to

incorporate the latest improvements and functionality in the ASP.NET Core MVC 2 Framework.

Essential Angular for ASP.NET Core MVC-

Adam Freeman 2017-07-26 Angular 5 and .NET Core 2 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Discover Angular, the leading client-side web framework, from the point of view of an ASP.NET Core MVC developer. Best-selling author Adam Freeman brings these two key technologies together and explains how to use ASP.NET Core MVC to provide back-end services for Angular applications. This fast-paced, practical guide starts from the nuts and bolt and gives you the knowledge you need to combine Angular (from version 2.0 up) and ASP.NET Core MVC in your projects. What You'll Learn Gain a solid understanding of how ASP.NET Core MVC and Angular can work together Use Visual Studio 2017 to develop Angular/ASP.NET Core MVC

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projects Create ASP.NET Core RESTful web services to support Angular applications Expose data from Entity Framework Core to Angular applications Use ASP.NET Core Identity to provide security services to Angular applications Each topic is covered clearly and concisely and is packed with the essential details you need to learn to be truly effective. Who This Book Is For This book is for developers with a knowledge of ASP.NET Core MVC who are introducing Angular into their projects.

Microservices with Docker on Microsoft Azure (includes Content Update Program)-

Boris Scholl 2016-06-24 Book + Content Update Program “Beyond just describing the basics, this book dives into best practices every aspiring microservices developer or architect should know.” —Foreword by Corey Sanders, Partner Director of Program Management, Azure Microservice-based applications enable unprecedented agility and ease of management, and Docker containers are ideal for building

them. Microsoft Azure offers all the foundational technology and higher-level services you need to develop and run any microservices application. Microservices with Docker on Microsoft Azure brings together essential knowledge for creating these applications from the ground up, or incrementally deconstructing monolithic applications over time. The authors draw on their pioneering experience helping to develop Azure’s microservices features and collaborating with Microsoft product teams who’ve relied on microservices architectures for years. They illuminate the benefits and challenges of microservices development and share best practices all developers and architects should know. You’ll gain hands-on expertise through a detailed sample application, downloadable at github.com/flakio/flakio.github.io. Step by step, you’ll walk through working with services written in Node.js, Go, and ASP.NET 5, using diverse data stores (mysql, elasticsearch, block storage). The authors guide you through using Docker Hub as a service registry, and Microsoft Azure Container service for cluster management and

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service orchestration. Coverage includes:
Recognizing how microservices architectures are different, and when they make sense
Understanding Docker containers in the context of microservices architectures Building, pulling, and layering Docker images Working with Docker volumes, containers, images, tags, and logs Using Docker Swarm, Docker Compose, and Docker Networks Creating Docker hosts using the Azure portal, Azure Resource Manager, the command line, docker-machine, or locally via Docker toolbox Establishing development and DevOps environments to support microservices applications Making the most of Docker's continuous delivery options Using Azure's cluster and container orchestration capabilities to operate and scale containerized microservices applications with maximum resilience Monitoring microservices applications with Azure Diagnostics, Visual Studio Application Insights, and Microsoft Operations Management Suite Developing microservices applications faster and more effectively with Azure Service Fabric An extensive sample application demonstrating the

microservices concepts discussed throughout the book is available online In addition, this book is part of InformIT's exciting new Content Update Program, which provides content updates for major technology improvements! As significant updates are made to Docker and Azure, sections of this book will be updated or new sections will be added to match the updates to the technologies. As updates become available, they will be delivered to you via a free Web Edition of this book, which can be accessed with any Internet connection. To learn more, visit informit.com/cup. How to access the Web Edition: Follow the instructions inside to learn how to register your book to access the FREE Web Edition.

Beginning Programming with Python For Dummies-John Paul Mueller 2018-02-13 The easy way to learn programming fundamentals with Python Python is a remarkably powerful and dynamic programming language that's used in a wide variety of application domains. Some of its

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key distinguishing features include a very clear, readable syntax, strong introspection capabilities, intuitive object orientation, and natural expression of procedural code. Plus, Python features full modularity, supporting hierarchical packages, exception-based error handling, and modules easily written in C, C++, Java, R, or .NET languages, such as C#. In addition, Python supports a number of coding styles that include: functional, imperative, object-oriented, and procedural. Due to its ease of use and flexibility, Python is constantly growing in popularity—and now you can wear your programming hat with pride and join the ranks of the pros with the help of this guide. Inside, expert author John Paul Mueller gives a complete step-by-step overview of all there is to know about Python. From performing common and advanced tasks, to collecting data, to interacting with package—this book covers it all! Use Python to create and run your first application Find out how to troubleshoot and fix errors Learn to work with Anaconda and use Magic Functions Benefit from completely updated and revised information

since the last edition If you've never used Python or are new to programming in general, Beginning Programming with Python For Dummies is a helpful resource that will set you up for success.

Learning ASP.NET Core 2.0-Jason de Oliveira
2017-12-14 Learn how web applications can be built efficiently using ASP.NET Core 2.0 and related frameworks About This Book Get to grips with the new features and APIs introduced in ASP.NET Core 2.0 Leverage the MVC framework and Entity Framework Core 2 to build efficient applications Learn to deploy your web applications in new environments such as the cloud and Docker Who This Book Is For This book is for developers who would like to build modern web applications with ASP.NET Core 2.0. No prior knowledge of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be helpful but is not required, since detailed instructions will guide through the samples of the book. This book can

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also help people, who work in infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn Set up your development environment using Visual Studio 2017 and Visual Studio Code Create a fully automated continuous delivery pipeline using Visual Studio Team Services Get to know the basic and advanced concepts of ASP.NET Core 2.0 with detailed examples Build an MVC web application and use Entity Framework Core 2 to access data Add Web APIs to your web applications using RPC, REST, and HATEOAS Authenticate and authorize users with built-in ASP.NET Core 2.0 features Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications In Detail The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses. ASP.NET Core 2.0 is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will take you through all of the essential

concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications. The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll s...

Pro ASP.NET Core 3-Adam Freeman

2020-06-22 This bestselling comprehensive guide to ASP.NET Core is the only book you need for ASP.NET Core development. Period. Professional developers will produce leaner applications for the ASP.NET Core platform using the guidance in this full-color book, now in its 8th edition and updated for ASP.NET Core 3. It contains detailed

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explanations of the ASP.NET Core platform and the application frameworks it supports. This edition puts ASP.NET Core 3 into context and dives deep into the tools and techniques required to build modern, extensible, web applications. New features and capabilities such as MVC 3, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they are applied. ASP.NET Core 3 is the latest evolution of Microsoft's ASP.NET web platform and provides a "host-agnostic" framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core 3. He starts with the nuts-and-bolts topics, teaching you about middleware components, built-in services, request model binding, and more. As you gain knowledge and confidence, he introduces increasingly more complex topics and advanced features, including endpoint routing

and dependency injection. He goes in depth to give you the knowledge you need. This book follows the same format and style as the popular previous editions but brings everything up-to-date for the new ASP.NET Core 3 release and broadens the focus to include the entire ASP.NET Core platform. You will appreciate the fully worked case study of a functioning ASP.NET Core application that you can use as a template for your own projects. What You Will Learn Build a solid foundation and skill set for working with the entire ASP.NET Core platform Apply the new ASP.NET Core 3 features in your developer environment See how to create RESTful web services, web applications, and client-side applications Build on your existing knowledge to get up and running with new programming models quickly and effectively Who This Book Is For This book is for Microsoft developers and assumes a basic knowledge of web development and C#. While written for professionals who want to incorporate the latest improvements and functionality of ASP.NET Core 3 into their own projects, it also serves as an in-depth and

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complete reference on the topic. Beginners with some background in Microsoft web development will also benefit from the comprehensive coverage of the topic.

Learning ASP.NET Core 2.0-Jason De Oliveira
2017-12-14 Learn how web applications can be built efficiently using ASP.NET Core 2.0 and related frameworks About This Book Get to grips with the new features and APIs introduced in ASP.NET Core 2.0 Leverage the MVC framework and Entity Framework Core 2 to build efficient applications Learn to deploy your web applications in new environments such as the cloud and Docker Who This Book Is For This book is for developers who would like to build modern web applications with ASP.NET Core 2.0. No prior knowledge of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be helpful but is not required, since detailed instructions will guide through the samples of the book. This book can

also help people, who work in infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn Set up your development environment using Visual Studio 2017 and Visual Studio Code Create a fully automated continuous delivery pipeline using Visual Studio Team Services Get to know the basic and advanced concepts of ASP.NET Core 2.0 with detailed examples Build an MVC web application and use Entity Framework Core 2 to access data Add Web APIs to your web applications using RPC, REST, and HATEOAS Authenticate and authorize users with built-in ASP.NET Core 2.0 features Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications In Detail The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses. ASP.NET Core 2.0 is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will take you through all of the essential

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concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications. The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll show you how to deploy and monitor your applications using Azure, AWS, and Docker. After reading the book, you'll be able to develop efficient and robust web applications in ASP.NET Core 2.0 that have high levels of customer satisfaction and adoption. Style and approach Start an exciting journey to building high performance web applications using ASP.NET Core 2.0 and MVC

Asp.net Core in Action-Andrew Lock
2018-05-30 ASP.NET Core is a re-imagining of the .NET Framework that frees developers from Visual Studio and Windows. ASP.NET Core in Action is for C# developers without any web development experience who want to get started and productive using ASP.NET Core to build web applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Real-Time Web Application Development-
Rami Vemula 2017-12-01 Design, develop, and deploy a real-world web application by leveraging modern open source technologies. This book shows you how to use ASP.NET Core to build cross-platform web applications along with SignalR to enrich the application by enabling real-time communication between server and clients. You will use Docker to containerize your application, integrate with GitHub to package the application, and provide

continuous deployment to Azure's IaaS platform. Along the way, Real-Time Web Application Development covers topics including designing a Materialize CSS theme, using a test-driven development approach with xUnit.net, and securing your application with the OAuth 2.0 protocol. To further your understanding of the technology, you will learn logging and exception handling; navigation using view components; and how to work with forms and validations. The rich code samples from this book can be used to retrofit or upgrade existing ASP.NET Core applications. What You Will Learn Design and develop a real-world web application Implement security and data storage with OAuth2 and Azure Table Storage Orchestrate real-time notifications through SignalR Use GitHub and Travis CI for continuous integration of code Master Docker containerization and continuous deployment with Docker Cloud to Azure Linux virtual machines Who This Book Is For Developers and software engineers interested in learning an end-to-end approach to application development using Microsoft technologies.

ASP.NET Core 2 High Performance-James Singleton 2017-10-11 Learn how to develop web applications that deploy cross-platform and are optimized for high performance using ASP.NET Core 2 About This Book Master high-level web app performance improvement techniques using ASP.NET Core 2.0 Find the right balance between premature optimization and inefficient code Design workflows that run asynchronously and are resilient to transient performance issues Who This Book Is For This book is aimed for readers who can build a web application and have some experience with ASP.NET or some other web application framework (such as Ruby on Rails or Django). They can be people who are happy learning details independently but who struggle to discover the topics that they should be researching. The reader should be interested in improving the performance of their web app and in learning about ASP.NET Core and modern C#. What You Will Learn Understand ASP.NET Core 2 and how it differs from its predecessor

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Address performance issues at the early stages of development Set up development environments on Windows, Mac, and Linux Measure, profile and find the most significant problems Identify the differences between development workstations and production infrastructures, and how these can exacerbate problems Boost the performance of your application but with an eye to how it affects complexity and maintenance Explore a few cutting-edge techniques such as advanced hashing and custom transports In Detail The ASP.NET Core 2 framework is used to develop high-performance and cross-platform web applications. It is built on .NET Core 2 and includes significantly more framework APIs than version 1. This book addresses high-level performance improvement techniques. It starts by showing you how to locate and measure problems and then shows you how to solve some of the most common ones. Next, it shows you how to get started with ASP.NET Core 2 on Windows, Mac, Linux, and with Docker containers. The book illustrates what problems can occur as latency increases when deploying to

a cloud infrastructure. It also shows you how to optimize C# code and choose the best data structures for the job. It covers new features in C# 6 and 7, along with parallel programming and distributed architectures. By the end of this book, you will be fixing latency issues and optimizing performance problems, but you will also know how this affects the complexity and maintenance of your application. Finally, we will explore a few highly advanced techniques for further optimization. Style and approach A step-by-step practical guide filled with real-world use cases and examples

ASP.NET Core Recipes-John Ciliberti
2017-09-12 Quickly find solutions to common web development problems. Content is presented in the popular problem-solution format. Look up the problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved! ASP.NET Core Recipes is a practical guide for developers creating modern web applications, cutting through the

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complexities of ASP.NET, jQuery, React, and HTML5 to provide straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the MVC framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. What You'll Learn Take advantage of MVC's streamlined syntax Discover how to take full control over HTML Develop a simple API for creating RESTful web services Understand test-driven development Migrate a project from ASP.NET web forms to Core MVC, including recipes for converting DataGrids, Forms, Web Parts, Master Pages, and navigation controls Use Core MVC in

combination with popular JavaScript libraries, including jQuery, React, Bootstrap, and more Write unit tests for your MVC controllers, views, custom filters, and HTML helpers Utilize the latest features in Visual Studio 2017 to accelerate your Core MVC projects Identify performance bottlenecks in your MVC application Who This Book Is For Web developers of all skill levels who are looking for a programming reference for ASP.NET Core MVC and would like to gain an understanding of the inner workings of the platform. In addition, parts of this book provide guidance to developers familiar with ASP.NET Web Forms who would like to update their skill set to include Core MVC.

Front-end Development with ASP.NET Core, Angular, and Bootstrap-Simone Chiaretta
2018-03-07 This book shows you how to integrate ASP.NET Core with Angular, Bootstrap, and similar frameworks, with a bit of Nuget, continuous deployment, Bower dependencies, and Gulp build systems, including development

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beyond Windows on Mac and Linux.

Microservices Using ASP. NET Core-Akhil Mittal 2019-03-22 A handbook to get familiar with the Microservices concept and developing microservices using ASP.NET Core. This is a small book to cover the topic of microservices using a practical approach. Section 1, The Concept, makes you familiar with the concept of the Microservices. This section explains what are microservices, the architecture of microservices, the difference between monolithic and microservices. This section builds a deep understanding of microservices concept and architecture which is very important before you start development on microservices. Section 2, Docker section three of the book demonstrates the development of microservices and running microservices in separate instances at the same time. One of the instances would be running in a docker container. This section demonstrates the pre-requisites of having the microservice running in Docker and Docker installation. Section 3,

Microservice using ASP.NET Core, this section will train you on how to create a microservice using ASP.NET Core. This section is a step by step guide to create a microservice using ASP.Net Core and Entity Framework Core and deploy and run the microservice.

Clean Architecture-Robert C. Martin 2018 Building upon the success of best-sellers The Clean Coder and Clean Code, legendary software craftsman Robert C. "Uncle Bob" Martin shows how to bring greater professionalism and discipline to application architecture and design. As with his other books, Martin's Clean Architecture doesn't merely present multiple choices and options, and say "use your best judgment": it tells you what choices to make, and why those choices are critical to your success. Martin offers direct, is essential reading for every software architect, systems analyst, system designer, and software manager-- and for any programmer who aspires to these roles or is impacted by their work.

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Pro ASP.NET Core MVC-ADAM FREEMAN

2016-09-15 Visual Studio 2017 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Now in its 6th edition, the best selling book on MVC is now updated for ASP.NET Core MVC. It contains detailed explanations of the new Core MVC functionality which enables developers to produce leaner, cloud optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the

legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a "host agnostic" framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core MVC. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need. This book follows the same format and style as the popular previous editions but brings everything up to date for the new ASP.NET Core MVC release. It presents a fully worked case study of a functioning ASP.NET MVC application that readers can use as a template for their own projects. What You Will Learn: Gain a solid architectural understanding of ASP.NET Core MVC Explore the entire ASP.NET MVC Framework as a cohesive whole See how MVC and test-driven development work in action Learn what's new in ASP.NET Core MVC and how best to apply these new features to

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your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For: This book is for web developers with a basic knowledge of ASP.NET and C# who want to incorporate the latest improvements and functionality in the new ASP.NET Core MVC Framework.

Essential Angular for ASP.NET Core MVC 3-

Adam Freeman 2019-10-23 Combine the strengths of Angular, the leading framework for developing complex client-side applications, and ASP.NET Core MVC 3, the latest evolution of Microsoft's framework for server-side applications. This new edition offers updated Angular, ASP.NET Core 3, Entity Framework Core 3 examples, an all-new chapter on interoperability with Blazor, and more! Best-selling author Adam Freeman brings together these two key technologies and explains how to

use ASP.NET Core MVC 3 to provide back-end services for Angular applications. This fast-paced and practical guide starts from the nuts and bolts and gives you the knowledge you need to combine Angular and ASP.NET Core MVC 3 in your projects. Each topic is covered clearly and concisely and is packed with the essential details you need to learn to be truly effective. What You Will Learn Gain a solid understanding of how ASP.NET Core MVC 3 and Angular can work together Utilize both Visual Studio and Visual Studio Code to develop Angular/ASP.NET Core MVC projects Create ASP.NET Core RESTful web services to support Angular applications Expose data from Entity Framework Core to Angular applications Use ASP.NET Core Identity to provide security services to Angular applications Understand how Angular and Blazor applications can work together Who This Book Is For This book is for developers with knowledge of ASP.NET Core MVC who are introducing Angular into their projects.

Docker on Windows-Elton Stoneman

2017-07-13 Learn how to run new and old Windows applications in Docker containers. About This Book Package traditional .NET Frameworks apps and new .NET Core apps as Docker images, and run them in containers for increased efficiency, portability, and security Design and implement distributed applications that run across connected containers, using enterprise-grade open source software from public Docker images Build a full Continuous Deployment pipeline for a .NET Framework application, and deploy it to a highly-available Docker swarm running in the cloud Who This Book Is For If you want to modernize an old monolithic application without rewriting it, smooth the deployment to production, or move to DevOps or the cloud, then Docker is the enabler for you. This book gives you a solid grounding in Docker so you can confidently approach all of these scenarios. What You Will Learn Comprehend key Docker concepts: images, containers, registries, and swarms Run Docker on Windows 10, Windows Server 2016, and in the

cloud Deploy and monitor distributed solutions across multiple Docker containers Run containers with high availability and fail-over with Docker Swarm Master security in-depth with the Docker platform, making your apps more secure Build a Continuous Deployment pipeline by running Jenkins in Docker Debug applications running in Docker containers using Visual Studio Plan the adoption of Docker in your own organization In Detail Docker is a platform for running server applications in lightweight units called containers. You can run Docker on Windows Server 2016 and Windows 10, and run your existing apps in containers to get significant improvements in efficiency, security, and portability. This book teaches you all you need to know about Docker on Windows, from 101 to deploying highly-available workloads in production. This book takes you on a Docker journey, starting with the key concepts and simple examples of how to run .NET Framework and .NET Core apps in Windows Docker containers. Then it moves on to more complex examples—using Docker to modernize the

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architecture and development of traditional ASP.NET and SQL Server apps. The examples show you how to break up monoliths into distributed apps and deploy them to a clustered environment in the cloud, using the exact same artifacts you use to run them locally. To help you move confidently to production, it then explains Docker security, and the management and support options. The book finishes with guidance on getting started with Docker in your own projects, together with some real-world case studies for Docker implementations, from small-scale on-premises apps to very large-scale apps running on Azure. Style and approach Using a step-by-step approach, this book shows you how to use Docker on Windows. It includes practical examples and real-world technical and business scenarios that will help you effectively implement Docker in your environment. There are over 50 examples of Dockerized applications, using C# .NET projects as the source and packaging them into Docker images.

ASP.NET Core Application Development-

James Chambers 2016-11-29 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

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Hands-On RESTful Web Services with

ASP.NET Core 3-Samuele Resca 2019-12-27 Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services Key Features Apply design patterns and techniques to achieve a reactive, scalable web service Document your web services using the OpenAPI standard and test them using Postman Explore mechanisms to implement a secure web service using client-side SSL and token authentication Book Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you to the basics of the REST philosophy, where you'll study the different stages of designing and

implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide you through improving API resilience, securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code testability and maintainability. What you will learn Gain a comprehensive working knowledge of ASP.NET Core Integrate third-party tools and frameworks to build maintainable and efficient services Implement patterns using dependency injection to reduce boilerplate code and improve flexibility Use ASP.NET Core's out-

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of-the-box tools to test your applications Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment Secure your information using HTTPS and token-based authentication Integrate multiple web services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core will help you make the best use of the code samples included in the book.

Essential TypeScript-Adam Freeman
2019-08-14 Work with Typescript and get the most from this versatile open source language. Author Adam Freeman begins this book by describing Typescript and the benefits it offers, and goes on to show you how to use TypeScript in realistic scenarios, going in-depth to give you the knowledge you need. Starting from the nuts-and-bolts and building up to the most advanced

and sophisticated features, you will learn how TypeScript builds on the JavaScript type system to create a safer and more productive development experience and understand how TypeScript can be used to create applications using popular frameworks, including Node.js, Angular, React, and Vue.js. Each topic is covered clearly and concisely and is packed with the details you need to learn to be truly effective. The most important features are given a no-nonsense in-depth treatment and chapters include common problems and details of how to avoid them. What You Will Learn Gain a solid understanding of the TypeScript language and tools Use TypeScript for client- and server-side development Extend and customize TypeScript Debug and unit test your TypeScript code Who This Book Is For Developers who want to start using TypeScript, for example to create rich web applications using Angular, React, or Vue.js Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a

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global bank. Now retired, he spends his time writing and long-distance running.

.NET Core in Action-Dustin Metzgar
2018-04-28 .NET Core is a subset of the .NET framework with libraries and runtimes that drastically reduce its footprint, so you can write and run .NET applications more efficiently. .NET Core in Action shows .NET developers how to build professional software applications with .NET Core. By the end of this book, readers will be able to convert existing .NET code to work on multiple platforms or start new projects with knowledge of the tools and capabilities of .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

The Docker Book-James Turnbull 2014-07-14
Updated for Docker Community Edition v18.09!
Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who

are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to:

- * Install Docker.
- * Take your first steps with a Docker container.
- * Build Docker images.
- * Manage and share Docker images.
- * Run and manage more complex Docker containers.
- * Deploy Docker containers as part of your testing pipeline.
- * Build multi-container applications and environments.
- * Learn about

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orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery. * Explore the Docker API. * Getting Help and Extending Docker.

ASP.NET Core Essentials-Shahed Chowdhuri
2016-09-30 Develop and deploy modern cross-platform web applications with ASP.NET Core
About This Book Develop modern web applications from scratch Integrate server-side and client-side code with modern tools Be prepared for the real world with unit tests and cloud deployment Who This Book Is For This book is for software developers who have experience in .NET, preferably with C# or some other Object-Oriented Programming Language, which is required in order to build ASP.NET Core web applications. A basic understanding of web application development is also essential. What You Will Learn Develop ASP.NET web applications from scratch Use MVC to build all parts of a web application Use Web API to support browsers and mobile apps Simplify

development with client-side tools Use Entity Framework to integrate with your database Implement Dependency Injection to build testable software Build web solutions with performance and security in mind Deploy to the cloud and scale with ease In Detail ASP.NET Core is the latest collection of Microsoft's web application development technologies. When you're trying to reach a broad spectrum of users with a robust web application, ASP.NET Core is there to help you build that application. With the ability to cater to users on desktop, tablet, or smartphone platforms, you can put together a solution that works well anywhere. This book is what you need to get started developing ASP.NET Core applications as quickly as possible; starting by introducing the software and how it can be used in today's modern world of web applications and smartphone apps. Walking you through the benefits of a Web API to support both applications and mobile apps to give you a solid understanding of the tech to build upon as you see what ASP.NET Core can do for you. The book wraps up with practical

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guidelines for the use of database technologies, unit tests, security best practices, and cloud deployments for the real world. Style and approach This is a comprehensive guide for .NET developers to build the next generation of web apps. This book can be read from start to finish, but you can also come back to any chapter for a quick refresher, as each chapter is modularized for specific concepts.

Mastering ASP.NET Web API-Mithun

Pattankar 2017-08-11 Leverage ASP.Net Web API to build professional web services and create powerful applications. About This Book Get a comprehensive analysis of the latest specification of ASP.NET Core and all the changes to the underlying platform that you need to know to make the most of the web API See an advanced coverage of ASP.NET Core Web API to create robust models for your data, create controllers, and handle routing and security This book is packed with key theoretical and practical concepts that can be instantly applied to build

professional applications using API with Angular 4, Ionic, and React Who This Book Is For This book is for .Net developers who wants to Master ASP.NET Core (Web API) and have played around with previous ASP.NET Web API a little, but don't have in-depth knowledge of it. You need to know Visual Studio and C#, and have some HTML, CSS, and JavaScript knowledge. What You Will Learn Acquire conceptual and hands-on knowledge of ASP.NET Core (MVC & Web API) Learn about HTTP methods, the structure of HTTP content, internet media types, and how servers respond to HTTP requests and their associated HTTP codes Explore middleware, filters, routing, and unit testing Optimize Web API implementations Develop a secure Web API interface Deploy Web API projects to various platforms Consume your web API in front end application based on Angular 4, Bootstrap, and Ionic Implement and explore the current trends in service architecture In Detail Microsoft has unified their main web development platforms. This unification will help develop web applications using various pieces of the ASP.NET

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platform that can be deployed on both Windows and LINUX. With ASP.NET Core (Web API), it will become easier than ever to build secure HTTP services that can be used from any client. Mastering ASP.NET Web API starts with the building blocks of the ASP.NET Core, then gradually moves on to implementing various HTTP routing strategies in the Web API. We then focus on the key components of building applications that employ the Web API, such as Kestrel, Middleware, Filters, Logging, Security, and Entity Framework. Readers will be introduced to take the TDD approach to write test cases along with the new Visual Studio 2017 live unit testing feature. They will also be introduced to integrate with the database using ORMs. Finally, we explore how the Web API can be consumed in a browser as well as by mobile applications by utilizing Angular 4, Ionic and ReactJS. By the end of this book, you will be able to apply best practices to develop complex Web API, consume them in frontend applications and deploy these applications to a modern hosting infrastructure. Style and approach Using a

hands-on approach, we cover both the conceptual as well as the technical aspects of the ASP.NET Core (Web API) framework.

NET Programming-Pradeep Kumar Tapadiya 2002 Tapadiya takes a straightforward, hands-on approach to explain everything readers need to know from development to deployment and maintenance for this platform--all from a developer's perspective. Using C# as the primary language, and with plenty of code examples throughout, this book is an excellent way to learn.

Building Web Applications with .NET Core 2.1 and JavaScript-Philip Japikse 2019-12-13 Roll up your sleeves and jump into building web applications using .NET Core 2.1 and the most popular JavaScript frameworks. You will start by building a data access layer using Entity Framework Core, a RESTful service using ASP.NET Core, and then you will build a web

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application following the MVC pattern, also using ASP.NET Core. The resulting application is an example e-commerce site using the most appropriate capabilities in .NET Core for building a line of business applications. The second half of Building Web Applications with .NET Core 2.1 and JavaScript is dedicated to teaching you how to develop applications on the client with JavaScript, Bootstrap, and related tooling such as TypeScript, WebPack, NPM, and more. Each JavaScript framework will build the same UI as the ASP.NET Core web application from the first half of the book, leveraging the same ASP.NET Core RESTful service and Entity Framework Core data access layer. Building the same UI in the different JavaScript frameworks provides the context and knowledge to reasonably compare and contrast the tools. What You Will Learn Ramp up quickly on Entity Framework Core and ASP.NET Core Use TypeScript to deliver better JavaScript Manage your JavaScript build process Know how to build UIs with ASP.NET Core MVC, Angular, and React to make better decisions on which technologies to adopt in your projects

Conduct an apples-to-apples comparison of ASP.NET Core, Angular, and React Who This Book Is For .NET architects, consultants, and developers who want to modernize their skill set. Some understanding of JavaScript and the Web is useful.

Hands-On Microservices with C# 8 and .NET Core 3-Gaurav Arora 2020-03-27 Learn the essential concepts, techniques, and design patterns that will help you build scalable and maintainable distributed systems Key Features Learn to design, implement, test, and deploy your microservices Understand the challenges and complexities of testing and monitoring distributed services Build modular and robust microservice architectures with the latest features of C# 8 and .NET Core 3.1 Book Description The microservice architectural style promotes the development of complex applications as a suite of small services based on specific business capabilities. With this book, you'll take a hands-on approach to build

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microservices and deploy them using ASP .NET Core and Microsoft Azure. You'll start by understanding the concept of microservices and their fundamental characteristics. This microservices book will then introduce a real-world app built as a monolith, currently struggling under increased demand and complexity, and guide you in its transition to microservices using the latest features of C# 8 and .NET Core 3. You'll identify service boundaries, split the application into multiple microservices, and define service contracts. You'll also explore how to configure, deploy, and monitor microservices using Docker and Kubernetes, and implement autoscaling in a microservices architecture for enhanced productivity. Once you've got to grips with reactive microservices, you'll discover how keeping your code base simple enables you to focus on what's important rather than on messy asynchronous calls. Finally, you'll delve into various design patterns and best practices for creating enterprise-ready microservice applications. By the end of this book, you'll be

able to deconstruct a monolith successfully to create well-defined microservices. What you will learn Package, deploy, and manage microservices and containers with Azure Service Fabric Use REST APIs to integrate services using a synchronous approach Protect public APIs using Azure Active Directory and OAuth 2.0 Understand the operation and scaling of microservices using Docker and Kubernetes Implement reactive microservices with Reactive Extensions Discover design patterns and best practices for building enterprise-ready apps Who this book is for This book is for C# and .NET Core developers who want to understand microservices architecture and implement it in their .NET Core applications. If you're new to building microservices or have theoretical knowledge of the architectural approach, this book will help you gain a practical perspective to manage application complexity efficiently.

Learn Docker in a Month of Lunches-Elton

Stoneman 2020-08-04 Summary Go from zero to

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production readiness with Docker in 22 bite-sized lessons! Learn Docker in a Month of Lunches is an accessible task-focused guide to Docker on Linux, Windows, or Mac systems. In it, you'll learn practical Docker skills to help you tackle the challenges of modern IT, from cloud migration and microservices to handling legacy systems. There's no excessive theory or niche-use cases—just a quick-and-easy guide to the essentials of Docker you'll use every day. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The idea behind Docker is simple: package applications in lightweight virtual containers that can be easily installed. The results of this simple idea are huge! Docker makes it possible to manage applications without creating custom infrastructures. Free, open source, and battle-tested, Docker has quickly become must-know technology for developers and administrators. About the book Learn Docker in a Month of Lunches introduces Docker concepts through a series of brief hands-on lessons. Following a

learning path perfected by author Elton Stoneman, you'll run containers by chapter 2 and package applications by chapter 3. Each lesson teaches a practical skill you can practice on Windows, macOS, and Linux systems. By the end of the month you'll know how to containerize and run any kind of application with Docker. What's inside Package applications to run in containers Put containers into production Build optimized Docker images Run containerized apps at scale About the reader For IT professionals. No previous Docker experience required. About the author Elton Stoneman is a consultant, a former architect at Docker, a Microsoft MVP, and a Pluralsight author. Table of Contents PART 1 - UNDERSTANDING DOCKER CONTAINERS AND IMAGES 1. Before you begin 2. Understanding Docker and running Hello World 3. Building your own Docker images 4. Packaging applications from source code into Docker Images 5. Sharing images with Docker Hub and other registries 6. Using Docker volumes for persistent storage PART 2 - RUNNING DISTRIBUTED APPLICATIONS IN CONTAINERS 7. Running

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multi-container apps with Docker Compose 8. Supporting reliability with health checks and dependency checks 9. Adding observability with containerized monitoring 10. Running multiple environments with Docker Compose 11. Building and testing applications with Docker and Docker Compose PART 3 - RUNNING AT SCALE WITH A CONTAINER ORCHESTRATOR 12. Understanding orchestration: Docker Swarm and Kubernetes 13. Deploying distributed applications as stacks in Docker Swarm 14. Automating releases with upgrades and rollbacks 15. Configuring Docker for secure remote access and CI/CD 16. Building Docker images that run anywhere: Linux, Windows, Intel, and Arm PART 4 - GETTING YOUR CONTAINERS READY FOR PRODUCTION 17. Optimizing your Docker images for size, speed, and security 18. Application configuration management in containers 19. Writing and managing application logs with Docker 20. Controlling HTTP traffic to containers with a reverse proxy 21. Asynchronous communication with a message queue 22. Never the end

C# 7 and .NET Core 2.0 Blueprints-Dirk Strauss 2018-03-24 Leverage the features of C# 7 and .NET core 2.0 to build real-world .NET core applications Key Features Easy-to-follow real-world projects that get you up and running with the new features of C# 7 and .NET Core 2.0 The practical applications will assist you with concepts such as Entity Framework Core, serverless computing, and more in .NET Core 2.0 Explore OAuth concepts and build ASP.NET Core applications using MongoDB Book Description .NET Core is a general purpose, modular, cross-platform, and open source implementation of .NET. With the latest release of .NET Core, many more APIs are expected to show up, which will make APIs consistent across .Net Framework, .NET Core, and Xamarin. This step-by-step guide will teach you the essential .NET Core and C# concepts with the help of real-world projects. The book starts with a brief introduction to the latest features of C# 7 and .NET Core 2.0 before moving on to explain how C# 7 can be

implemented using the object-oriented paradigm. You'll learn to work with relational data using Entity Framework and see how to use ASP.NET Core practically. This book will show you how .NET Core allows the creations of cross-platform applications. You'll also learn about SignalR to add real-time functionality to your application. Then you will see how to use MongoDB and how to implement MongoDB into your applications. You'll learn about serverless computing and OAuth concepts, along with running ASP.NET Core applications with Docker Compose. This project-based guide uses practical applications to demonstrate these concepts. By the end of the book, you'll be proficient in developing applications using .NET Core 2.0. What you will learn How to incorporate Entity Framework Core to build ASP .NET Core MVC applications Get hands-on experience with SignalR, and NuGet packages Working with MongoDB in your ASP.NET Core MVC application Get hands-on experience with .NET Core MVC, Middleware, Controllers, Views, Layouts, Routing, and OAuth Implementing Azure Functions and learn what

Serverless computing means See how .NET Core enables cross-platform applications that run on Windows, macOS and Linux Running a .NET Core MVC application with Docker Compose Who this book is for This book is for .NET developers who would like to master and implement C# 7 and .NET Core 2.0 with practical projects. Basic knowledge of .NET Core and C# is assumed.

Beginning Build and Release Management with TFS 2017 and VSTS-Chaminda

Chandrasekara 2017-06-01 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

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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.

Modern Web Development with ASP.NET

Core 3-Ricardo Peres 2020-06-25 Explore the tools and techniques to build scalable and secured RESTful web services and web applications using C# 8 and ASP. NET Core 3.1 Key Features Delve into MVC patterns, configuration, routing, and deployment to build professional-grade applications Learn how to integrate ASP applications with the JavaScript frameworks React, Vue, and Angular Improve the performance of applications and the development team by implementing advanced ASP.NET Core concepts Book Description ASP.NET has been the preferred choice of web developers for a long time. With ASP.NET Core 3, Microsoft has made internal changes to the framework along with introducing new additions that will change the way you approach web development. This second edition has been thoroughly updated to help you make the most of the latest features in the

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framework, right from gRPC and conventions to Blazor, which has a new chapter dedicated to it. You'll begin with an overview of the essential topics, exploring the Model-View-Controller (MVC) pattern, various platforms, dependencies, and frameworks. Next, you'll learn how to set up and configure the MVC environment, before delving into advanced routing options. As you advance, you'll get to grips with controllers and actions to process requests, and later understand how to create HTML inputs for models. Moving on, you'll discover the essential aspects of syntax and processes when working with Razor. You'll also get up to speed with client-side development and explore the testing, logging, scalability, and security aspects of ASP.NET Core. Finally, you'll learn how to deploy ASP.NET Core to several environments, such as Azure, Amazon Web Services (AWS), and Docker. By the end of the book, you'll be well versed in development in ASP.NET Core and will have a deep understanding of how to interact with the framework and work cross-platform. What you will learn Understand the new capabilities of

ASP.NET Core 3.1 Become well versed in how to configure ASP.NET Core to use it to its full potential Create controllers and action methods, and understand how to maintain state Implement and validate forms and retrieve information from them Improve productivity by enforcing reuse, process forms, and effective security measures Delve into the new Blazor development model Deploy ASP.NET Core applications to new environments, such as Microsoft Azure, AWS, and Docker Who this book is for If you are a developer with basic knowledge of ASP.NET MVC and want to build powerful applications, then this book is for you. Developers who want to explore the latest changes in ASP.NET Core 3.1 to build professional-level applications will also find this book useful. Familiarity with C#, ASP.NET Core, HTML, and CSS is expected to get the most out of this book.

Pro Entity Framework Core 2 for ASP.NET Core MVC-Adam Freeman 2018-04-18 Model, map, and access data effectively with Entity

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Framework Core 2, the latest evolution of Microsoft's object-relational mapping framework. You will access data utilizing .NET objects via the most common data access layer used in ASP.NET Core MVC 2 projects. Best-selling author Adam Freeman explains how to get the most from Entity Framework Core 2 in MVC projects. He begins by describing the different ways that Entity Framework Core 2 can model data and the different types of databases that can be used. He then shows you how to use Entity Framework Core 2 in your own MVC projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid architectural understanding of Entity Framework Core 2 Create databases using your MVC data model Create MVC models using an existing database Access data in an MVC application using Entity Framework Core 2 Use Entity Framework in RESTful Web Services Who This Book Is For ASP.NET Core MVC 2 developers

who want to use Entity Framework Core 2 as the data access layer in their projects

Mastering Visual Studio .NET-Ian Griffiths 2003 A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated development environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

Programming C# 8.0-Ian Griffiths 2019-11-26 C# is undeniably one of the most versatile programming languages available to engineers today. With this comprehensive guide, you'll learn just how powerful the combination of C# and .NET can be. Author Ian Griffiths guides you through C# 8.0 fundamentals and techniques for building cloud, web, and desktop applications. Designed for experienced programmers, this

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book provides many code examples to help you work with the nuts and bolts of C#, such as generics, LINQ, and asynchronous programming features. You'll get up to speed on .NET Core and the latest C# 8.0 additions, including asynchronous streams, nullable references, pattern matching, default interface implementation, ranges and new indexing syntax, and changes in the .NET tool chain. Discover how C# supports fundamental coding features, such as classes, other custom types, collections, and error handling Learn how to write high-performance memory-efficient code with .NET Core's Span and Memory types Query and process diverse data sources, such as in-memory object models, databases, data streams, and XML documents with LINQ Use .NET's multithreading features to exploit your computer's parallel processing capabilities Learn how asynchronous language features can help improve application responsiveness and scalability

Understanding Game Application

Development-Vincent Maverick S. Durano
2018-12-12 Learn to build a simple data-driven mobile game application using the power of Xamarin.Forms, ASP.NET, the Web API, and SignalR with this short book. In it you will build a cross-platform mobile application that targets both iOS and Android, connect your app with your database using Entity Framework, and implement real-time syncing functionality using SignalR. Understanding Game Application Development starts by giving you an overview of the development tools, an installation guide, and a list of prerequisites. You will learn how to manage application flow, create your workspace, and set up your database. Next, you will see how to access data for handling CRUD operations and define the necessary API endpoints. Further, you will build a mobile application with Xamarin.Forms, both in iOS and in Android. You will also understand the deployment and testing process as well as how to build a real-time leader board using ASP.NET MVC and SignalR. Finally, you will understand how to publish your source code on GitHub from Visual Studio 2017. What

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You Will Learn Understand the basic concept and fundamentals of the technologies used for building the applications Set up your development environment Create a SQL database from scratch Implement a data access layer Define REST service endpoints using the Web API Deploy, test, and debug iOS and Android applications Push your source code to GitHub Who This Book Is For .NET developers who want to jump on mobile application development with Xamarin and learn with practical examples.

Modern API Design with ASP.NET Core 2-

Fanie Reynders 2018-03-08 Use ASP.NET Core 2 to create durable and cross-platform web APIs through a series of applied, practical scenarios. Examples in this book help you build APIs that are fast and scalable. You'll progress from the basics of the framework through to solving the complex problems encountered in implementing secure RESTful services. The book is packed full of examples showing how Microsoft's ground-up rewrite of ASP.NET Core 2 enables native cross-

platform applications that are fast and modular, allowing your cloud-ready server applications to scale as your business grows. Major topics covered in the book include the fundamentals and core concepts of ASP.NET Core 2. You'll learn about building RESTful APIs with the MVC pattern using proven best practices and following the six principles of REST. Examples in the book help in learning to develop world-class web APIs and applications that can run on any platform, including Windows, Linux, and MacOS. You can even deploy to Microsoft Azure and automate your delivery by implementing Continuous Integration and Continuous Deployment pipelines. What You Will Learn Incorporate automated API tooling such as Swagger from the OpenAPI specification Standardize query and response formats using Facebook's GraphQL query language Implement security by applying authentication and authorization using ASP.NET Identity Ensure the safe storage of sensitive data using the data protection stack Create unit and integration tests to guarantee code quality Who This Book Is For Developers who build server

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applications such as web sites and web APIs that need to run fast and cross platform; programmers who want to implement practical solutions for real-world problems; those who want in-depth knowledge of the latest bits of ASP.NET Core 2.0

Microsoft Azure Essentials - Fundamentals of Azure-Michael Collier 2015-01-29 Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter

(@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

SharePoint 2013 WCM Advanced Cookbook-John Chapman 2014-01-23 You will be led carefully step-by-step through a detailed set of recipes. This book focuses on web content management using Microsoft SharePoint 2013 server. The practical examples are built logically throughout the chapters to create a common theme. This book is ideal for developers who want to broaden their understanding of the web content management features available with SharePoint 2013. It is assumed that you already have some experience using SharePoint and developing web content. Experience with Microsoft PowerShell and coding C# with Visual Studio will also be helpful, but is not essential.

Pro ASP.NET MVC 4-Adam Freeman 2013-01-29 The ASP.NET MVC 4 Framework is

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the latest evolution of Microsoft's ASP.NET web platform. It provides a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility, combined with all the benefits of ASP.NET. ASP.NET MVC 4 contains a number of significant advances over previous versions. New mobile and desktop templates (employing adaptive rendering) are included together with support for jQuery Mobile for the first time. New display modes allow your application to select views based on the browser that's making the request while Code Generation Recipes for Visual Studio help you auto-generate project-specific code for a wide variety of situations including NuGet support. In this fourth edition, the core model-view-controller (MVC) architectural concepts are not simply explained or discussed in isolation, but are demonstrated in action. You'll work through an extended tutorial to create a working e-

commerce web application that combines ASP.NET MVC with the latest C# language features and unit-testing best practices. By gaining this invaluable, practical experience, you'll discover MVC's strengths and weaknesses for yourself—and put your best-learned theory into practice. The book's authors, Steve Sanderson and Adam Freeman, have both watched the growth of ASP.NET MVC since its first release. Steve is a well-known blogger on the MVC Framework and a member of the Microsoft Web Platform and Tools team. Adam started designing and building web applications 15 years ago and has been responsible for some of the world's largest and most ambitious projects. You can be sure you are in safe hands.