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Web Web Build, deploy and scale powerful web applications quickly and efficiently. Web Apps Quickly create and deploy mission-critical web apps at scale; API Management Publish APIs to developers, partners and employees securely and at scale; Content Delivery Network Ensure secure, reliable content delivery with broad global reach

Web applications | Microsoft Azure
Create and deploy a simple.NET Core web app and database using the

Azure portal. Extend your app to perform data analytics using Azure Logic Apps and Cognitive Services. Set up continuous delivery with GitHub to automatically deploy changes in a continuous delivery pipeline – making your apps more robust and easier to update.

The Developer's Guide to Azure | Microsoft Azure

The Azure portal is a web-based application. You can use the Azure portal to create, manage, and remove Azure resources and services. It includes: A configurable dashboard; Azure resource management tools; Access to subscription settings and billing information. For more information, see the Azure portal overview. REST APIs

Get started guide for developers on Azure | Microsoft Docs

Static Web Apps A modern web app service that offers streamlined full-stack development from source code to global high availability Azure Communication Services Build rich communication experiences with the same secure platform used by Microsoft Teams

Web App Service | Microsoft Azure

All you need to do is create a web site and deploy your application to it, using Windows PowerShell, Visual Studio, or the Azure management portal. For a quick and easy step-by-step tutorial that shows how to create a web application in Visual Studio and deploy it to a Azure Web Site, see Get started with Azure and ASP.NET .

Building Real-World Cloud Apps with Azure | Microsoft Docs

The Building Real World Cloud Apps with Azure e-book is based on a presentation developed by Scott Guthrie. It explains 13 patterns and practices that can help you be successful developing web apps for the cloud. For information about the e-book, see the first chapter.

Web Development Best Practices (Building Real-World Cloud ...

Azure offers a variety of services you can use to host websites and web applications. These services let you develop in your favorite language, whether that's.NET,.NET Core, Java, Ruby, Node.js, PHP, or Python. Azure App Service Web Apps (Web Apps) is one of these services. Web Apps adds the power of Microsoft Azure to your application.

Design secure applications on Microsoft Azure | Microsoft Docs

Web Applications on Azure: Developing for Global Scale Rob Reagan (auth.) Build .NET apps on Microsoft Azure services that can grow to Internet scale. Learn how you can make smart application architecture decisions and follow best practices so that your website can handle tens of thousands of concurrent users and deliver your content globally.

Web Applications on Azure: Developing for Global Scale ...

To build and deploy a web application with Azure Pipelines, the source code must be published to a remote Git repository in Azure Repos,

GitHub or elsewhere (TFVC – Team Foundation Version Control and SVN – Subversion repositories are also supported). First, a build pipeline must be created to build the application and run the tests.

Developing Cloud Applications in .NET | DotNetCurry
Developing & Deploying Web Apps on Microsoft Azure Microsoft Azure Overview for Developers. In this module you will get a broad overview of Azure, and the different... App Service Plans. When creating web, API or mobile applications. The content you provide has to be served somewhere... App ...

Developing & Deploying Web Apps on Microsoft Azure - U2U ...
Web applications. Build .NET web applications that can be hosted easily in Azure with ASP.NET, a set of tools and libraries for building web applications and services. Get auto scaling, patching, CI/CD, advanced performance monitoring, and production debugging snapshots with Azure App Service to make building and running your web applications easier.

.NET Applications | Microsoft Azure
Create web apps. App Service overview; Azure Functions overview; Host a web app with Azure App Service; Develop, test, and deploy an Azure Function with Visual Studio; Publish and manage your APIs with Azure API Management; ASP.NET Core web app with App Service and Azure SQL Database; Managed identity with ASP.NET and Azure SQL Database

Azure for .NET developers | Microsoft Docs
Build.NET apps on Microsoft Azure services that can grow to Internet scale. Learn how you can make smart application architecture decisions and follow best practices so that your website can handle tens of thousands of concurrent users and deliver your content globally.

Web Applications on Azure - Developing for Global Scale ...
Application Development on Microsoft Azure Authors: Steve Smith, Patrick Neborg, Matt Honeycutt, Sahil Malik, Nikola Milanovic, Matthew Kruczek, Shawn Hainsworth Application development on Microsoft Azure incorporates many strategies of traditional development and introduces new possibilities that are part of leveraging the cloud.

Application Development on Microsoft Azure | Pluralsight
Microsoft Azure Web Sites offers secure and flexible development, deployment, and scaling options for any sized web application. Use frameworks and templates to create web sites in seconds. Choose from source control options like TFS, GitHub, and BitBucket. Use any tool or OS to develop your site with.NET, PHP, Node.js or Python.

Build .NET apps on Microsoft Azure services that can grow to Internet scale. Learn how you can make smart application architecture decisions and follow best practices so that your website can handle tens of

thousands of concurrent users and deliver your content globally. Author Rob Reagan takes you through key Azure technologies targeted toward building web applications, and along the way shares his lessons learned in scaling out a real-world web application. After an overview of web application building blocks, the book dives into relational and NoSQL data storage options on Azure, including Azure Table Storage and CosmosDB. You'll then discover how to make best use of Redis Cache, Web Jobs, Messaging Queues, and more, alongside other tips, tricks, and troubleshooting advice for when things go wrong. The book concludes with a thorough exploration of best practices for deployment at scale. What You'll Learn Develop scalable architecture patterns on Azure with ASP.NET MVC Understand the pros and cons of using SQL Azure vs. NoSQL solutions (Azure Tables, CosmosDB) Perform data migration, backup, and recovery in SQL Azure Use effective caching Troubleshoot your web applications Know best practices for deployment Who This Book Is For Professional developers or serious hobbyists with experience developing web applications with ASP.NET MVC or Web API

Build .NET apps on Microsoft Azure services that can grow to Internet scale. Learn how you can make smart application architecture decisions and follow best practices so that your website can handle tens of thousands of concurrent users and deliver your content globally. Author Rob Reagan takes you through key Azure technologies targeted toward building web applications, and along the way shares his lessons learned in scaling out a real-world web application. After an overview of web application building blocks, the book dives into relational and NoSQL data storage options on Azure, including Azure Table Storage and CosmosDB. You'll then discover how to make best use of Redis Cache, Web Jobs, Messaging Queues, and more, alongside other tips, tricks, and troubleshooting advice for when things go wrong. The book concludes with a thorough exploration of best practices for deployment at scale. What You'll Learn Develop scalable architecture patterns on Azure with ASP.NET MVC Understand the pros and cons of using SQL Azure vs. NoSQL solutions (Azure Tables, CosmosDB) Perform data migration, backup, and recovery in SQL Azure Use effective caching Troubleshoot your web applications Know best practices for deployment Who This Book Is For Professional developers or serious hobbyists with experience developing web applications with ASP.NET MVC or Web API

The "Microsoft Azure Essentials" series helps you advance your technical skills with Microsoft Azure. "Microsoft Azure Essentials: Azure Web Apps for Developers" focuses on providing essential information about developing web applications hosted on Azure Web Apps. It is written with the developer who has experience using Visual Studio and the .NET Framework in mind. If Azure Web Apps is new to you, this book is for you. If you have experience developing for Azure Web Apps, this book is for you, too, because there are features and tools discussed in this text that are new to the platform.

Get started and learn a step-by-step approach to application

development using Microsoft Azure. Select the right services to solve the problem at hand in a cost-effective manner and explore the potential different services and how they can help in building enterprise applications. Azure has an ample amount of resources and tutorials, but most of them focus on specific services and explain those services on their own and in a given context. Practical Azure Application Development focuses on building complete solutions on Azure using different services. This book gives you the holistic approach to Azure as a solutions development platform. This book: Covers Azure as a solution development platform for building applications Provides real-world examples to understand why and when an Azure service is required Discusses how Azure helps to achieve continuous improvement and expansion of an application Provides application development experience from purchasing Azure to integrating with core Azure services, including an introduction to DevOps with VSTS What You'll Learn Use Azure services to solve real-world software problems Define the usage of Azure services and select the right services to solve the problem at hand Make clear and less ambiguous decisions about using different Azure services Take a holistic approach to Azure as a solution platform Understand the basics of security, data protection, and cost controls in Azure Who This Book Is For Developers, software engineers, and architects who have experience in .NET and web development, but have little or no knowledge in planning and developing an application on Azure

Straight talking advice on how to design and build enterprise applications for the cloud using Microsoft Azure with this book and eBook.

Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and

running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 9 Applications that scale 10 Global databases with Cosmos DB 11 Managing network traffic and routing 12 Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13 Backup, recovery, and replication 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing

Explore tools for integrating resources and applications with Azure Active Directory for authentication and authorization. This book starts with an introduction to Azure Active Directory (AAD) where you will learn the core concepts necessary to understand AAD and authentication in general. You will then move on to learn OpenID Connect and OAuth along with its flows, followed by a deep dive into the integration of web applications for user-based authentication. Next, you go through user authentication and how to enable the integration of various native applications with AAD. This is followed by an overview of authenticating applications along with a detailed discussion on collaboration with external users and other AD tenants. Moving forward, Developing Applications with Azure Active Directory covers using schemas of AD objects, such as users, to add custom attributes on top of ADD's predefined attributes. You will see how multi-tenancy can be supported in Azure AD as well as how to design authorization with Azure AD. After reading this book, you will be able to integrate, design, and develop authentication and authorization techniques in Azure Active Directory. What You Will Learn Integrate applications with Azure AD for authentication Explore various Azure AD authentication scenarios Master core Azure AD concepts Integrate external users and tenants Who is this book for: The book will be useful for architects and developers, planning to use Azure AD for authentication.

Guide to designing and developing cloud native applications in Azure DESCRIPTION The mainstreaming of Cloud Native Architecture as an enterprise discipline is well underway. According to the Forbes report in January 2018, 83% of the enterprise workloads will be in the cloud by 2020 and 41% of the enterprise workloads will run on public cloud

platforms, while another 22% will be running on hybrid cloud platforms. Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and microservices is an important aspect of the journey. This book starts with a brief introduction on the basics of cloud native applications, cloud native application patterns. Then it covers the cloud native options available in Azure. The objective of the book is to provide practical guidelines to an architect/designer/consultant/developer, who is a part of the Cloud application definition Team. The book articulates a methodology that the implementation team needs to follow in a step-by-step manner and adopt them to fulfil the requirements for enablement of the Cloud Native application. It emphasizes on the interpersonal skills and techniques for organizing and directing the Cloud Native definition, leadership buy-in, leading the transition from planning to implementation. It also highlights the steps to be followed for performing the cloud native applications, cloud native patterns in the development of Cloud native applications, Cloud native options available in Azure, Developing BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server less architecture, using Azure with a practical and pragmatic approach. This book embraces a structured approach organized around the following key themes, which represent the typical phases that an enterprise traverses during its Cloud Native application journey: ● Basics of Cloud Native Applications: It covers basics of cloud native applications using .NET core. ● Cloud Native Application Patterns: The reader will understand the patterns for developing Cloud Native Applications. ● Cloud Native Options available in Azure: The reader will understand the different options available in Azure. ● Developing a Simple BOT using .NET Core: The reader will understand the Azure BOT framework basics and will learn how to develop a simple BOT. ● Developing cloud native applications leveraging Microservices: The reader will understand the concepts of developing micro services using the Azure API Gateway Manager. ● Developing Integration capabilities using serverless architecture: The reader will understand the integration capabilities and various options available in Azure ● Developing a simple IoT application: The reader will understand the basics of developing IoT applications. ● Developing a simple ML based application: The reader will understand Machine Learning basics and how to develop a simple ML application ● Different enterprise use cases, which enable digital transformation using the Cloud Native Applications: The reader will learn about different use cases that can be built using cloud native applications KEY FEATURES (Add 5-7 key features only) ● Basics of Cloud Native Applications ● Designing Microservices ● Different cloud native options for developing Cloud Native Applications in Azure ● BOTs, Web Apps, Mobile Apps, Logic Apps, Service Bus, Azure Functions ● Azure IOT Applications ● Azure Machine Learning Basics ● Enterprise Digital Journeys WHAT WILL YOU LEARN This book aims to: ● Demonstrate the importance of a Cloud Native application in elevating the

effectiveness of organizational transformation programs and digital enterprise journeys, using MS Azure ● Disseminate current advancements and thought leadership in the area of Cloud Native architecture, in the context of digital enterprises ● Provide initiatives with evidence-based, credible, field tested and practical guidance in crafting their respective architectures; and ● Showcase examples and experiences of the innovative use of Cloud Native Applications in enhancing transformation initiatives. WHO THIS BOOK IS FOR The book is intended for anyone looking for a career in Cloud technology, all aspiring Cloud Architects who want to learn Cloud Native Architectures, Microservices, IoT, BoT and Microsoft Azure platform and working professionals who want to switch their career in Cloud Technology. While no prior knowledge of Azure or related technologies is assumed, it will be helpful to have some .Net programming experience. In addition, the target audience of this book are, ● Business Leaders, Chief Architects, Analysts and Designers seeking better, quicker and easier approaches to respond to needs of their internal and external customers; ● CIOs/CTOs of business software companies interested in incorporating Cloud Native architecture to differentiate their products and services offerings and increasing the value proposition to their customers; ● Consultants and practitioners desirous of new solutions and technologies to improve productivity of their clients; ● Academic and consulting researchers looking to uncover and characterize new research problems and programmes ● Practitioners and professionals involved with organizational technology strategic planning, technology procurement, management of technology projects, consulting and advising on technology issues and management of total cost of ownership. Table of Contents 1. Basics of Cloud Native Applications 2. Cloud Native Application Patterns 3. Cloud Native Options available in Azure - BOTs, Logic Apps, Service Bus, Azure Microservices, ML services 4. Developing a Simple BOT using .NET Core 5. Developing Cloud Native applications leveraging Microservices and Azure API Gateway 6. Developing Integration capabilities using serverless architecture 7. Developing a simple IoT application 8. Developing a simple ML based application 9. Different enterprise use cases which enable digital transformation using Cloud Native Applications

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.

In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

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