Building Cloud Apps With Microsoft Azure Best Practices For Devops Data Storage High Availability And More Developer Reference

Provides information on best practices and strategies for SharePoint implementation, including integrating SharePoint with external dat governance strategies, planning for disaster recovery, records management, and security.

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

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

The cloud is becoming the de facto home for companies ranging from enterprises to startups. Moving to the cloud means moving your from monolith to microservices. But once you do, maintaining and running these services brings its own level of complexity. The answer Modularity, deployability, observability, and self-healing capacity through cloud native development. With this practical book, Nishant Sin Michael Kehoe from LinkedIn show you how to build a true cloud native infrastructure on Microsoft Azure, following guidelines from the Native Computing Foundation (CNCF). DevOps and site reliability engineers will learn how adapting applications to cloud native early in t design phase helps you fully utilize the elasticity and distributed nature of the cloud. Chapters include: Setting Up the Bedrock: Infrastru Code and Azure Engines with Chassis: Container Runtime and Container Registry More Than boxes: Containerizing Your Application The Grand Orchestrator: Kubernetes Following the Breadcrumbs: Observability and More Finding New Territories and Crossing Borders: Servi Discovery, Service Mesh, and Proxy Behold the Gatekeepers: Networking and Policy Management Marching Infantry with Armory: Distrib Databases and Storage The Mailman: Streaming and Messaging The Showroom: Software Distribution

Designing Distributed Systems
Beginning PowerApps

Microsoft Azure Essentials Azure Web Apps for Developers
Best Practices for DevOps, Data Storage, High Availability, and More
Learn Azure in a Month of Lunches, Second Edition
Understanding the Teams App Developer Platform
Microsoft Azure Essentials - Fundamentals of Azure

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

Learn the nuts and bolts of cloud computing with Windows Azure, Microsoft's new Internet services platform. Written by a key member of the product development team, this book shows you how to build, deploy, host, and manage applications using Windows Azure's programming model and essential storage services. Chapters in Programming Windows Azure are organized to reflect the platform's buffet of services. The book's first half focuses on how to write and host application code on Windows Azure, while the second half explains all of the options you have for storing and accessing data on the platform with high scalability and reliability. Lots of code samples and screenshots are available to help you along the way. Learn how to build applications using the Windows Azure toolset Discover how Windows Azure works under the hood, and learn the how and the why behind several features Choose to write application code in .NET or other languages such as C/C++, PHP, or Ruby Understand the various options for managing your service Get up to speed on Azure's storage services, including blobs, queues, and tables Build a secure backup system, and learn about cloud application security, cryptography, and performance

Your hands-on guide to Microsoft Visual C# fundamentals with Visual Studio 2015 Expand your expertise--and teach yourself the fundamentals of programming with the latest version of Visual C# with Visual Studio 2015. If you are an experienced software developer, you'll get all the guidance, exercises, and code you need to start building responsive, scalable Windows 10 and Universal Windows Platform applications with Visual C#. Discover how to: Quickly start creating Visual C# code and projects with Visual Studio 2015 Work with variables, operators, expressions, and methods Control program flow with decision and iteration statements Build more robust apps with error, exception, and resource management Master the essentials of Visual C# object-oriented programming Use enumerations, structures, generics,

collections, indexers, and other advanced features Create in-memory data queries with LINQ query expressions Improve application throughput and response time with asynchronous methods Decouple application logic and event handling Streamline development with new app templates Implement the Model-View-ViewModel (MVVM) pattern Build Universal Windows Platform apps that smoothly adapt to PCs, tablets, and Windows phones Integrate Microsoft Azure cloud databases and RESTful web services About You For software developers who are new to Visual C# or who are upgrading from older versions Readers should have experience with at least one programming language No prior Microsoft .NET or Visual Studio development experience required

With the immense cost savings and scalability the cloud provides, the rationale for building cloud native applications is no longer in question. The real issue is how. With this practical guide, developers will learn about the most commonly used design patterns for building cloud native applications using APIs, data, events, and streams in both greenfield and brownfield development. You'll learn how to incrementally design, develop, and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost, time, and effort. Authors Kasun Indrasiri and Sriskandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step. Learn the fundamentals of cloud native applications Explore key cloud native communication, connectivity, and composition patterns Learn decentralized data management techniques Use event-driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you'll need for building cloud native systems

Introducing Windows Azure for IT Professionals

Learn Microsoft PowerApps

Microsoft Application Architecture Guide

The Enterprise Cloud

Cloud Architecture Patterns

Microsoft System Center Cloud Management with App Controller

Extend Microsoft Access Applications to the Cloud

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

A hands-on guide to mastering Azure cloud design patterns and best practices. Key Features Master architectural design pat hands-on with implementing design patterns. Implement best practices for improving efficiency and security Book Description cloud infrastructure covers factors such as consistency, maintenance, simplified administration and development, and reusab important to choose the right architectural pattern as it has a huge impact on the quality of cloud-hosted services. This boc design patterns and functionalities to help you build your cloud infrastructure so it fits your system requirements. This book design patterns that are focused on factors such as availability and data management/monitoring. Then the focus shifts to c patterns such as multitasking, improving scalability, valet keys, and so on, with practical use cases. The book also supplies be improve the security and performance of your cloud. By the end of this book, you will thoroughly be familiar with the differe architectural patterns available with Windows Azure and capable of choosing the best pattern for your system. What you wi organize Azure access Design the core areas of the Azure Execution Model Work with storage and data management Create monitoring pattern Automate early detection of anomalies Identify and secure Azure features Who this book is for This book architects and cloud solution providers who are looking for an extensive guide to implementing different patterns for the de maintenance of services in Microsoft Azure. Prior experience with Azure is required as the book is completely focused on des Serverless computing is radically changing the way we build and deploy applications. With cloud providers running servers an machine resources, companies now can focus solely on the application's business logic and functionality. This hands-on book experienced programmers how to build and deploy scalable machine learning and deep learning models using serverless archit Microsoft Azure. You'll learn step-by-step how to code machine learning into your projects using Python and pre-trained moc tools such as image recognition, speech recognition, and classification. You'll also examine issues around deployment and con including scaling, security, and monitoring. This book is divided into four parts: Cloud-based development: learn the basics of : computing with machine learning, functions as a service (FaaS), and the use of APIs Adding intelligence: create serverless app Azure Functions; learn how to use pre-built machine-learning and deep-learning models Deployment and continuous delivery: g with Azure Kubernetes Service, as well as Azure Security Center, and Azure Monitoring Application examples: deliver data at t conversational interfaces, and use convolutional neural networks for image classification

Microsoft Azure is a cloud computing platform that provides a wide variety of services that we can use without purchasing hardware. It enables the fast development of solutions and provides the resources to complete tasks that may not be achiev premises environment. Azure Services like compute, storage, network, and application services allow us to put our effort into solutions without worrying about the assembly of physical infrastructure.This book covers the fundamentals of Azure, which idea about all the Azure key services that we are most likely required to know to start developing solutions. After completing crack job interviews or able to get different Microsoft Azure certifications.Microsoft Azure is a cloud service that can be use testing, and managing applications and services through a network of servers managed by Microsoft in various locations all Get the most out of Azure, simply by following the easy instructions fully explained in this audiobook. This step-by-step guide

everything you need to know to do more with Azure than you ever thought possible!Here is a preview of what you will learn Infrastructure as a Service (IAAS)Platform as a Service (PAAS) Software as a Service (SAAS) Public, Private, and Hybrid Clouds Computing and Security IssuesThe Importance of Geopolitics in Cloud ComputingOverview of Available Azure ServicesDevelopr AzureMobile Services in AzureAzure Storage ServicesData-Management Functions in AzureMessaging Functions on Microsoft A Content Delivery NetworkDeveloper Tools in AzureApplication Management with AzureMachine Learning Capabilities in AzureAz Internet of Things (IOT) Definition of Azure DevopsAdvantages of Azure DevopsPrivacy and Microsoft AzureCreating a Window MachineCreating a Linux Virtual Machine And so much more! With this guide, you will learn everything you need to know abo Azure!

Kubernetes: Up and Running

Best Practices for Transforming Legacy IT

Implement rich Azure PaaS ecosystems using containers, serverless services, and storage solutions

Application Performance Management in the Cloud

Advice from the Trenches

Microsoft Azure Security Center

Briggs

Part of a series of specialized guides on System Center - this book focuses on using AppController to manage virtual machines and services across private and public clouds. Series editor Mitch Tulloch and a team of System Center experts provide concise technical guidance as they step you through key configuration and management tasks.

A Cloud for Global Good: a book of policy recommendations for governments, industry and civil society to help ensure that the opportunities of technology are evenly shared, and that challenges facing society are identified early and practical solutions applied

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

Summary Cloud Native Patternsis your guide to developing strong applications that thrive in the dynamic, distributed, virtual world of the cloud. This book presents a mental model for cloud-native applications, along with the patterns, practices, and tooling that set them apart. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Cloud platforms promise the holy grail: near-zero downtime, infinite scalability, short feedback cycles, fault-tolerance, and cost control. But how do you get there? By applying cloudnative designs, developers can build resilient, easily adaptable, web-scale distributed applications that handle massive user traffic and data loads. Learn these fundamental patterns and practices, and you'll be ready to thrive in the dynamic, distributed, virtual world of the cloud. About the Book With 25 years of experience under her belt, Cornelia Davis teaches you the practices and patterns that set cloud-native applications apart. With realistic examples and expert advice for working with apps, data, services, routing, and more, she shows you how to design and build software that functions beautifully on modern cloud platforms. As you read, you will start to appreciate that cloud-native computing is more about the how and why rather than the where. What's inside The lifecycle of cloud-native apps Cloud-scale configuration management Zero downtime upgrades, versioned services, and parallel deploys Service discovery and dynamic routing Managing interactions between services, including retries and circuit breakers About the Reader Requires basic software design skills and an ability to read Java or a similar language. About the Author Cornelia Davis is Vice President of Technology at Pivotal Software. A teacher at heart, she's spent the last 25 years making good software and great software developers. Table of Contents PART 1 - THE CLOUD-NATIVE CONTEXT You keep using that word: Defining "cloud-native" Running cloud-native applications in production The platform for cloud-native software PART 2 - CLOUD-NATIVE PATTERNS Event-driven microservices: It's not just request/response App redundancy: Scale-out and statelessness Application configuration: Not just environment variables The application lifecycle: Accounting for constant change Accessing apps: Services, routing, and service discovery Interaction redundancy: Retries and other control loops Fronting services: Circuit breakers and API gateways Troubleshooting: Finding the needle in the haystack Cloud-native data: Breaking the data

monolith
Cloud Native Infrastructure with Azure
Create Scalable Apps with ASP.NET MVC 4, Azure, Web Sockets, and More
SharePoint 2013
A Guide to Modern Databases and the NoSQL Movement
Azure
Developing Multi-Tenant Applications for the Cloud on Windows Azure
Build customized business applications without writing any code

How can you create an application that has truly global reach, and can scale rapidly to meet sudden massive spikes in demand? Historically, companies had to invest in an infrastructure capable of supporting such an application themselves, and plan for peak demand-which often means that much of the capacity sits idle for much of the time. Typically, only large companies would have the available resources to risk such an enterprise. The cloud has changed the rules of the game. By making infrastructure available on a "pay as you go" basis, creating a massively scalable, global application is within the reach of both large and small companies. Yes, by moving applications to the cloud you're giving up some control and autonomy, but you're also going to benefit from reduced costs, increased flexibility, and scalable computation and storage. This guide is the third release of the second volume in a series about Windows Azure. It demonstrates how you can create from scratch a multi-tenant, Software as a Service (SaaS) application to run in the cloud by using the Windows Azure tools and the increasing range of capabilities of Windows Azure. The guide focuses on both good practice design and the practicalities of implementation for multi-tenant applications, but also contains a wealth of information on factors such as security, scalability, availability, and elasticity that are relevant to all types of cloud hosted applications. The guide is intended for any architect, developer, or information technology (IT) professional who designs, builds, or operates applications and services that run on or interact with the cloud. Although applications do not need to be based on the Windows operating system to work in Windows Azure, or be written using a .NET language, this guide is written for people who work with Windows based systems. You should be familiar with the .NET Framework, Visual Studio, ASP.NET MVC, and Visual C#.

Gain practical skills with Azure and understand how to start developing scalable and easy-to-maintain cloud applications Key Features Get up and running with the development aspects of Azure cloud Build fault-tolerant and scalable applications on Azure A practical, developer-centric guide for Azure developers Book Description Microsoft Azure is one of the fastest growing public cloud service providers in the market currently, and also holds the second highest market share after AWS. Azure has a sophisticated set of services that will help you build fault-tolerant and scalable cloud-based applications. Hands-On Azure for Developers will take you on a journey through multiple PaaS services available in Azure, including App Services, Functions, and Service Fabric, and explain in detail how to build a complete and reliable system with ease. You will learn about how to maximize your skills when building cloud-based solutions leveraging different SQL/NoSQL databases, serverless and messaging components, and even search engines such as Azure Search. In the concluding chapters, this book covers more

advanced scenarios such as scalability best practices, serving static content with Azure CDN, and distributing loads with Azure Traffic Manager. By the end of the book, you will be able to build modern applications on the Azure cloud using the most popular and promising technologies, which will help make your solutions reliable, stable, and efficient. What you will learn Implement serverless components such as Azure functions and logic apps Integrate applications with available storages and containers Understand messaging components, including Azure Event Hubs and Azure Queue Storage Gain an understanding of Application Insights and other proper monitoring solutions Store your data with services such as Azure SQL and Azure Data Lake Storage Develop fast and scalable cloud applications Who this book is for Hands-On Azure for Developers is for developers who want to build highly scalable cloud-based applications on Azure. Prior knowledge of Azure services will be an added advantage.

Get the definitive guide on designing applications on the Microsoft application platformâ € ” straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application typeâ € ” from Web, mobile, and rich Internet applications to Office Business Applications. Youâ € ™ll also get links to additional technical resources that can help with your application development.

Do you need to learn about cloud computing architecture with Microsoft's Azure quickly? Read this book! It gives you just enough info on the big picture and is filled with key terminology so that you can join the discussion on cloud architecture.

Develop Scalable Models Using Serverless Architectures with Azure

Building Web, Cloud, and Mobile Solutions with F#

Programming the Microsoft Cloud

Building Cloud Apps With Microsoft Azure

A Cloud for Global Good

Microsoft Azure Essentials Azure Machine Learning

Building and Managing Cloud Native Applications

Legend has it that Google deploys over two billion application containers a week. How's that possible? Google revealed the secret through a project called Kubernetes, an open source cluster orchestrator (based on its internal Borg system) that radically simplifies the task of building, deploying, and maintaining scalable distributed systems in the cloud. This practical guide shows you how Kubernetes and container technology can help you achieve new levels of velocity, agility, reliability, and efficiency. Authors Kelsey Hightower, Brendan Burns, and Joe Beda—who've worked on Kubernetes at Google and other organizatons—explain how this system fits into the lifecycle of a distributed application. You will learn how to use tools and APIs to automate scalable distributed systems, whether it is for online services, machine-learning applications, or a cluster of Raspberry Pi computers. Explore the distributed system challenges that Kubernetes addresses Dive into containerized application development, using containers such as Docker Create and run containers on Kubernetes, using the docker image format and container runtime Explore specialized objects essential

for running applications in production Reliably roll out new software versions without downtime or errors Get examples of how to develop and deploy real-world applications in Kubernetes

Practical Software Architecture Solutions from the Legendary Robert C. Martin ("Uncle Bob") By applying universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books Clean Code and The Clean Coder, legendary software craftsman Robert C. Martin ("Uncle Bob") reveals those rules and helps you apply them. Martin's Clean Architecture doesn't merely present options. Drawing on over a half-century of experience in software environments of every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face—the ones that will make or break your projects. Learn what software architects need to achieve—and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for web, database, thick-client, console, and embedded applications Define appropriate boundaries and layers, and organize components and services See why designs and architectures go wrong, and how to prevent (or fix) these failures Clean Architecture is essential reading for every current or aspiring software architect, systems analyst, system designer, and software manager—and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess,

port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

We're thrilled to share another free ebook with you: Introducing Microsoft Azure HDInsight, by Avkash Chauhan, Valentine Fontama, Michele Hart, Wee Hyong Tok, and Buck Woody. Here are the download links: Download the PDF (6.37 MB; 130 pages) from http://aka.ms/IntroHDInsight/PDF Download the EPUB (8.46 MB) from http://aka.ms/IntroHDInsight/EPUB Download the MOBI (12.8 MB) from http://aka.ms/IntroHDInsight/MOBI Download the code samples (6.83 KB) from http://aka.ms/IntroHDInsight/CompContent Get a head start evaluating Windows Azure - with technical insights from a Microsoft MVP Mitch Tulloch. This guide introduces the latest features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Topics include: Understanding Windows Azure Windows Azure Compute Services Windows Azure Network Services Windows Azure Data Services Windows Azure App Services Getting Started with Windows Azure

Designing change-tolerant software

Seven Databases in Seven Weeks

Design Patterns for Cloud Native Applications

A Practitioner's Guide to Design, Develop and Deploy Apps

Implement efficient design patterns for data management, high availability, monitoring and other popular patterns on your Azure Cloud

Building Cloud Apps with Microsoft Azure

Microsoft Azure: Build, Manage, and Scale Cloud Applications Using the Azure Infrastructure

A step-by-step guide that will help you create, share, and deploy applications across your organization using MS PowerApps Key Features Create apps with rich user experiences without paying for costly developers Improve productivity with business process automation using Microsoft Power Automate Build enterprise-grade apps with MS PowerApps' built-in storage space, Common Data Service Book Description Microsoft PowerApps provides a modern approach to building business applications for mobile, tablet, and browser. Learn Microsoft PowerApps will guide you in creating powerful and productive apps that will add value to your organization by helping you transform old and inefficient processes and workflows. Starting with an introduction to PowerApps, this book will help you set up and configure your first application. You'll explore a variety of built-in templates and understand the key difference between types of applications such as canvas and model-driven apps, which are used to create apps for specific business scenarios. In addition to this, you'll learn how to generate and integrate apps directly with SharePoint, and gain an understanding of PowerApps key components such as connectors and formulas. As you advance, you'll be able to use various controls and data sources, including technologies such as GPS, and combine them to create an iterative app. Finally, the book will help you understand how PowerApps can use several Microsoft Power Automate and Azure functionalities to improve

your applications. By the end of this PowerApps book, you'll be ready to confidently develop lightweight business applications with minimal code. What you will learn Design an app by simply dragging and dropping elements onto your canvas Understand how to store images within PowerApps Explore the use of GPS and how you can use GPS data in PowerApps Get to grips with using barcodes and QR codes in your apps Share your applications with the help of Microsoft Teams and SharePoint Use connectors to share data between your app and Microsoft's app ecosystem Who this book is for This book is ideal for business analysts, IT professionals, and both developers and non-developers alike. If you want to meet business needs by creating high productivity apps, this book is for you. Don't worry if you have no experience or knowledge of PowerApps, this book simplifies PowerApps for beginners. Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. This third ebook in the series introduces Microsoft Azure Machine Learning, a service that a developer can use to build predictive analytics models (using training datasets from a variety of data sources) and then easily deploy those models for consumption as cloud web services. The ebook presents an overview of modern data science theory and principles, the associated workflow, and then covers some of the more common machine learning algorithms in use today. It builds a variety of predictive analytics models using real world data, evaluates several different machine learning algorithms and modeling strategies, and then deploys the finished models as machine learning web services on Azure within a matter of minutes. The ebook also expands on a working Azure Machine Learning predictive model example to explore the types of client and server applications you can create to consume Azure Machine Learning web services. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series. Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4J, CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more. This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a *nix shell (Mac OS or Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database. Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and optimize virtually all facets of modern security, from policies and identity to incident response and risk management. Whatever your role in Azure security, you'll learn how to save hours, days, or even weeks by solving problems in most efficient, reliable

ways possible. Two of Microsoft's leading cloud security experts show how to: • Assess the impact of cloud and hybrid environments on security, compliance, operations, data protection, and risk management • Master a new security paradigm for a world without traditional perimeters • Gain visibility and control to secure compute, network, storage, and application workloads • Incorporate Azure Security Center into your security operations center • Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions • Adapt Azure Security Center's built-in policies and definitions for your organization • Perform security assessments and implement Azure Security Center recommendations • Use incident response features to detect, investigate, and address threats • Create high-fidelity fusion alerts to focus attention on your most urgent security issues • Implement application whitelisting and just-in-time VM access • Monitor user behavior and access, and investigate compromised or misused credentials • Customize and perform operating system security baseline assessments • Leverage integrated threat intelligence to identify known bad actors

Implementing Azure Cloud Design Patterns
A Policy Road Map for a Trusted, Responsible and Inclusive Cloud
Building Solutions with Microsoft Teams
Hands-On Azure for Developers
Cloud Native Patterns
Programming Windows Azure
Best Practices for Devops, Data Storag

This updated and expanded second edition of the Building Cloud Apps with Microsoft Azure: Best Practices for DevOps, Data Storag provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.
Use this collection of best practices and tips for assessing the health of a solution. This book provides detailed techniques and instructions to quickly diagnose aspects of your Azure cloud solutions. The initial chapters of this book introduce you to the many facets of Microsoft Azure, explain why and how building for the cloud differs from on-premise development, and outline the need for a comprehensive strategy to debugging and profiling in Azure. You learn the major types of blades (FaaS, SaaS, PaaS, IaaS), how different views can be created for different scenarios, and you will become familiar with the Favorites section, Cost Management & Billing blade, support, and Cloud Shell. You also will know how to leverage Application Insights for application performance management, in order to achieve a seamless cloud development experience. Application Insights, Log Analytics, and database storage topics are covered. The authors further guide you on identity security with Azure AD and continuous delivery with CI and CD covered in detail along with the capabilities of Azure DevOps.

And you are exposed to external tooling and trouble shooting in a production environment. After reading this book, you will be able to apply methods to key Azure services, including App Service (Web Apps, Function Apps, and Logic Apps), Cloud Services, Azure Container Service, Azure Active Directory, Azure Storage, Azure SQL Database, Cosmos DB, Log Analytics, and many more. What You Will Learn Debug and manage the performance of your applications Leverage Application Insights for application performance management Extend and automate CI/CD with the help of various build tools, including Azure DevOps, TeamCity, and Cake bootstrapper Who This Book Is For Application developers, designers, and DevOps personnel who want to find a one-stop shop in best practices for managing their application's performance in the cloud and for debugging the issues accordingly

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.

Explore Microsoft Teams and use its principal tools such as Node.js, npm, Yeoman, Gulp, TypeScript, and React to help you develop for Teams better. This book covers the core components and use cases for Teams apps and guides you through ideas for automation, provisioning, and implementation. Building Solutions with Microsoft Teams starts with an overview of the Microsoft Teams developer platform followed by how to set up your environment for building apps and solutions with Teams. You will then go through various features of conversational bots and learn how to create a bot. You will gain an understanding of the messaging extension and command actions along with tabs for personal, groups, and teams contexts. Moving forward, you will work with SharePoint and Teams together via SharePoint Framework. Finally, you will manage the Teams life cycle and see design guidelines supported by various case studies. After reading this book, you will be able to integrate solutions from Power Apps, Power Automate, Power BI, and Power Virtual agents by using accelerators. You will also be able to leverage your existing skills from SharePoint Framework development. What You Will Learn Extend the Teams developer platform capabilities Understand Microsoft Graph, including lifecycle management, collaboration, calling, and online meetings Create an app package for your Microsoft

Teams app Connect web services to Microsoft Teams with webhooks Who This Book Is ForMicrosoft Teams developers.
Enterprise Cloud epUB _1
Dive into the Future of Infrastructure
Patterns and Paradigms for Scalable, Reliable Services
Cloud Native Python
Building Intelligent Cloud Applications
Clean Architecture
The Non-Developers Guide to Building Business Mobile Applications

Build mobile apps that specifically target your company's unique business needs, with the same ease of writing a simple spreadsheet! With this book, you will build business apps designed to work with your company's systems and databases, without having to enlist the expertise of costly, professionally trained software developers. In Beginning PowerApps, author and business applications expert Tim Leung guides you step-by-step through the process of building your own mobile app. He assumes no technical background, although if you have worked with Excel, you are one step closer. He guides you through scenarios, such as what to do if you have existing databases with complex data structures and how to write screens that can connect to those data. You will come away with an understanding of how to set up screen navigation, manipulate data from within apps, and write solutions to perform specific tasks. What You'll Learn Connect with data Write formulas Visualize your data through charts Work with global positioning systems (GPS) Build flows Import and export data Manage offline scenarios Develop custom application programming interfaces (API) Who This Book Is For Beginners and non-developers, and assumes no prior knowledge of PowerApps

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.

Learn how to build key aspects of web, cloud, and mobile solutions by combining F# with various .NET and open source technologies. With helpful examples, this hands-on book shows you how to tackle concurrency, asynchrony, and other server-side challenges. You'll quickly learn how to be productive with F#, whether you want to integrate the language into your existing web application or use it to create the next Twitter. If you're a mid- to senior-level .NET programmer, you'll discover how this expressive functional-first language helps you write robust, maintainable, and reusable solutions that scale easily and target multiple devices. Use F# with ASP.NET MVC, ASP.NET Web API, WCF, Windows Azure, HTML5, CSS3, jQuery Mobile, and other tools Build next-generation ASP.NET MVC 4 web applications, using F# to do the heavy lifting on the server Create WCF SOAP and HTTP web services Develop F# web applications and services that run on Windows Azure Build scalable solutions that allow reuse by mobile and web front-ends Use F# with the WebSharper and Pit frameworks to build end-to-end web stacks Build cloud native applications in Python About This Book This is the only reliable resource that showcases the tools and techniques you need build robust and resilient cloud native applications in Python Learn how to architect your application on both, the AWS and Azure clouds for high availability Assess, monitor, and troubleshoot your applications in the cloud Who This Book Is For This book is ideal for developers with a basic knowledge of Python who want to learn to build, test, and scale their Python-based applications. No prior experience of writing microservices in Python is required. What You Will Learn Get to know "the way of the cloud", including why developing good cloud software is fundamentally about mindset and discipline Know what microservices are and how to design them Create reactive applications in the cloud with third-party messaging providers Build massive-scale, user-friendly GUIs with React and Flux Secure cloud-based web applications: the do's, don'ts, and options Plan cloud apps that support continuous delivery and deployment In Detail Businesses today are evolving so rapidly that having their own infrastructure to support their expansion is not feasible. As a result, they have been resorting to the elasticity of the cloud to provide a platform to build and deploy their highly scalable applications. This book will be the one stop for you to learn all about building cloud-native architectures in Python. It will begin by introducing you to cloud-native

architecture and will help break it down for you. Then you'll learn how to build microservices in Python using REST APIs in an event driven approach and you will build the web layer. Next, you'll learn about Interacting data services and building Web views with React, after which we will take a detailed look at application security and performance. Then, you'll also learn how to Dockerize your services. And finally, you'll learn how to deploy the application on the AWS and Azure platforms. We will end the book by discussing some concepts and techniques around troubleshooting problems that might occur with your applications after you've deployed them. This book will teach you how to craft applications that are built as small standard units, using all the proven best practices and avoiding the usual traps. It's a practical book: we're going to build everything using Python 3 and its amazing tooling ecosystem. The book will take you on a journey, the destination of which, is the creation of a complete Python application based on microservices over the cloud platform Style and approach Filled with examples, this book takes a step-by-step approach to teach you each and every configuration you need to make your application highly available and fault tolerant.
Building Web Services with Microsoft Azure
Cloud Debugging and Profiling in Microsoft Azure
Practical Azure Application Development
Developing Cloud Native Applications in Azure using .NET Core
A Step-by-Step Approach to Build Feature-Rich Cloud-Ready Solutions
A Craftsman's Guide to Software Structure and Design
Microsoft Visual C# Step by Step
Thought-provoking and accessible in approach, this updated and expanded second edition of the Building Cloud Apps with Microsoft Azu Best Practices for DevOps, Data Storag provides a user-friendly introduction to the subject, Taking a clear structural framework, it guid reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for advanced graduate-level students. We hope you find this book useful in shaping your future career. Feel free to send us your enquiries related to our publications to info@risepress.pw Rise Press
Learn how to create an Access web app, and move your database into the cloud. This practical book shows you how to design an Acce web app for Microsoft Office 365, and convert existing Access desktop databases to a web app as well. You'll quickly learn your way a the web app design environment, including how to capitalize on its strengths and avoid the pitfalls. You don't need any special web skil get started. Discover how to: Make your desktop database compatible with web app table structures Create tables, views, and queries Customize the table selector and work with popup views to provide a navigation interface Implement business rules using the Macro Programming Tools Develop using Office 365 and SharePoint 2013 Use SQL Azure to investigate how your web app is structured Desig test, and troubleshoot Data Macros Understand how security links between a web app and Office 365 Deploy a public facing web app Office 365 public website

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 2020 and 41% of the enterprise workloads will run on public cloud platforms, while another 22% will be running on hybrid cloud platform Customers are embarking on the enterprise digital transformation journeys. Adopting cloud and cloud native architectures and microser 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 guideline an architect/designer/consultant/developer, who is a part of the Cloud application definition Team. The book articulates a methodology the implementation team needs to follow in a step-by-step manner and adopt them to fulfil the requirements for enablement of the Clo 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 native applications, cloud native patterns in the development of Cloud native applications, Cloud native options available in Azure, Develo BOT, Microservices based on Azure. It also covers how to develop simple IoT applications, Machine learning based applications, server le architecture, using Azure with a practical and pragmatic approach. This book embraces a structured approach organized around the foll key themes, which represent the typical phases that an enterprise traverses during its Cloud Native application journey: ? Basics of Clo 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 t 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 simp 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 ena digital transformation using the Cloud Native Applications: The reader will learn about different use cases that can be built using cloud 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 Function ? 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 enterprise journeys, using MS Azure ? Disseminate current advancements and thought leadership in the area of Cloud Native architectu 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 assum 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 pro and services offerings and increasing the value proposition to their customers; ? Consultants and practitioners desirous of new solution 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, technol procurement, management of technology projects, consulting and advising on technology issues and management of total cost of owne 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

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 serv on their own and in a given context. Practical Azure Application Development focuses on building complete solutions on Azure using diff 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 Le 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, softw engineers, and architects who have experience in .NET and web development, but have little or no knowledge in planning and developing application on Azure

Best Practices for Devops