

# **Containerapp**

**Rajendra Chayapathi, Syed Farrukh Hassan, Paresh Shah**

## **A Developer's Guide to .NET in Azure** Anuraj Parameswaran,Tamir Al Balkhi,2023-10-20

Develop cloud-native applications using serverless technologies, Azure services, and .NET with the help of this reference guide

**Key Features**

- Create cloud-native .NET applications using cutting-edge technologies
- Design, develop, and deploy scalable, manageable, and resilient apps with various Azure services
- Explore serverless architecture and optimize application scalability through efficient design

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**Book Description**

A Developer's Guide to .NET in Azure helps you embark on a transformative journey through Microsoft Azure that is tailored to .NET developers. This book is a curated compendium that'll enable you to master the creation of resilient, scalable, and highly available applications. The book is divided into four parts, with Part 1 demystifying Azure for you and emphasizing the portal's utility and seamless integration. The chapters in this section help you configure your workspace for optimal Azure synergy. You'll then move on to Part 2, where you'll explore serverless computing, microservices, containerization, Dapr, and Azure Kubernetes Service for scalability, and build pragmatic, cost-effective applications using Azure Functions and Container apps. Part 3 delves into data and storage, showing you how to utilize Azure Blob Storage for unstructured data, Azure SQL Database for structured data, and Azure Cosmos DB for document-oriented data. The final part teaches you about messaging and security, utilizing Azure App Configuration, Event Hubs, Service Bus, Key Vault, and Azure AD B2C for robust, secure applications. By the end of this book, you'll have mastered Azure's responsive infrastructure for exceptional applications.

**What you will learn**

- Discover how to create serverless apps and services
- Design microservices with Azure Kubernetes service
- Get to grips with different Azure databases and storage services
- Find out how to use secret and

configuration management Familiarize yourself with event-driven architecture Understand how to leverage Azure Service Bus and Azure Event Hubs Find out how to protect APIs and apps using Azure B2C Who this book is for This book is for .NET developers and architects who are eager to master the art of creating and deploying robust applications using .NET and Azure. A foundational understanding of .NET and Azure will enable you to enhance your skills with this resourceful guide. Developers aspiring to explore the realms of microservices and serverless applications within the .NET and Azure landscapes will find this book invaluable.

**Azure Cookbook** Reza Salehi, 2023-06-22 How do you deal with the problems you face when using Azure? This practical guide provides over 75 recipes to help you to work with common Azure issues in everyday scenarios. That includes key tasks like setting up permissions for a storage account, working with Cosmos DB APIs, managing Azure role-based access control, governing your Azure subscriptions using Azure Policy, and much more. Author Reza Salehi has assembled real-world recipes that enable you to grasp key Azure services and concepts quickly. Each recipe includes CLI scripts that you can execute in your own Azure account. Recipes also explain the approach and provide meaningful context. The solutions in this cookbook will take you beyond theory and help you understand Azure services in practice. You'll find recipes that let you: Store data in an Azure storage account or in a data lake Work with relational and nonrelational databases in Azure Manage role-based access control (RBAC) for Azure resources Safeguard secrets in Azure Key Vault Govern your Azure subscription using Azure Policy Use CLI code to construct your application or fix a particular problem

**The SQL Server DBA's Guide to Docker Containers** Edwin M Sarmiento, 2020-05-29 Get introduced to the world of Docker containers from a SQL Server DBA's perspective. This book

explains container technology and how it can improve the deployment of your SQL Server databases without infrastructure lock-in. You will be equipped with the right technical skills to guide stakeholders in your business as they adopt and adapt to new technologies to improve time-to-market and competitiveness. You will learn how to build a lab environment at home on which to build skills that transfer directly into your day job. This book teaches you how to install and configure Docker on both Windows Server and Linux operating systems. You will learn the most common Docker commands that you need to know as a DBA to deploy and manage SQL Server on containers. Support for SQL Server on Linux is new, and this book has your back with guidance on creating Docker images specifically for deployment to a Linux platform. Included is coverage of key Linux commands needed to manage SQL Server on that operating system. By the end of the book you will have learned how to create your own custom SQL Server container images with configuration settings that are specific to your organization, that are capable of being deployed to both Windows Server and Linux. What You Will Learn

- Create Docker containers for agile deployment of SQL Server
- Run multiple SQL Server instances on a single Linux machine
- Deploy custom images specific to your organization's needs
- Know the benefits and architecture of container technology
- Install and configure Docker on Windows Server and Linux
- Manage and persist SQL Server data in Docker containers

Who This Book Is For Intermediate to senior SQL Server DBAs who are familiar with SQL Server on Windows and want to build their existing skills to deploy and manage SQL Server on Linux and through Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the Transact-SQL language.

*IBM Bluemix Architecture Series: Web Application Hosting on IBM Containers* Ann Marie Fred, Bhargav Perepa, Eduardo A Patrocinio, Henryk Gorski, Manav Gupta, Patrick M Ryan, Richard

Osowski,Ryan C Livesey,Vasfi Gucer,IBM Redbooks,2015-02-15 Many types of web applications are running on the Internet today. There are also as many ways to manage and maintain the infrastructure that powers those applications. IBM® Bluemix™ delivers quick and easy cloud capabilities to deploy and maintain your web application, with minimal hassle and overhead. As you follow along with four lab-style scenarios, this IBM Redpaper™ publication demonstrates how to create and deploy a web-based collaboration application on IBM Bluemix. The application chosen for these scenarios is Etherpad Lite, an open-source web-based collaboration application. Each lab extends the functionality of the Etherpad Lite application and to give you a good foundation for discovering the additional powerful capabilities that are available on Bluemix. The target audience for this paper is technical cloud specialists who are familiar with the technology of enterprise applications, but might be new to Bluemix.

*Practical Microservices with Dapr and .NET* Davide Bedin,Mark Russinovich,2022-11-11 Use the innovative, highly portable event-driven distributed application runtime to simplify building resilient and scalable microservices for cloud and edge applications. Purchase of the print or Kindle book includes a free eBook in the PDF format. Key FeaturesBuild resilient, stateless, and stateful microservice applications that run on the cloud and edgeOvercome common issues in distributed systems, such as low latency and scaling, using any language and frameworkLearn how to expose and operate Dapr applications with multiple optionsBook Description This second edition will help you get to grips with microservice architectures and how to manage application complexities with Dapr in no time. You'll understand how Dapr simplifies development while allowing you to work with multiple languages and platforms. Following a C# sample, you'll understand how Dapr's runtime, building blocks, and software development kits (SDKs) help you to simplify the creation of resilient

and portable microservices. Dapr provides an event-driven runtime that supports the essential features you need for building microservices, including service invocation, state management, and publish/subscribe messaging. You'll explore all of those in addition to various other advanced features with this practical guide to learning Dapr. With a focus on deploying the Dapr sample application to an Azure Kubernetes Service cluster and to the Azure Container Apps serverless platform, you'll see how to expose the Dapr application with NGINX, YARP, and Azure API Management. By the end of this book, you'll be able to write microservices easily by implementing industry best practices to solve problems related to distributed systems. What you will learn

- Use Dapr to create services, invoking them directly and via pub/sub
- Discover best practices for working with microservice architectures
- Leverage the actor model to orchestrate data and behavior
- Expose API built with Dapr applications via NGINX and Azure API Management
- Use Azure Kubernetes Service to deploy a sample application
- Monitor Dapr applications using Zipkin, Prometheus, and Grafana
- Scale and load test Dapr applications on Kubernetes
- Get to grips with Azure Container Apps as you combine Dapr with a serverless platform

Who this book is for This book is for developers looking to explore and implement microservices architectures in Dapr applications using .NET examples. Whether you are new to microservices or have knowledge of this architectural approach and want to get hands-on experience using Dapr, you'll find this book useful. Familiarity with .NET will help you to understand the C# samples and code snippets used in the book.

*Microsoft Azure For Dummies* Jack A. Hyman, 2023-01-12 The must-have reference for Azure newcomers As Microsoft's Azure platform takes a larger stake in the cloud computing world, more tech pros need to know the ins-and-outs of this fast-growing platform. *Microsoft Azure For Dummies* is the essential guide for users who are new to the platform. Take your first steps into the world of

Azure as you learn all about the core services—straight from a Microsoft expert. This book covers the Azure essentials you need to know, including building a virtual network on Azure, launching and scaling applications, migrating existing services, and keeping everything secure. In classic Dummies style, you'll learn the fundamentals of Azure's core services and—when you're ready—how to move into more advanced services. Discover the basics of cloud computing with Microsoft Azure and learn what services you can access with Azure Build your cloud network with Azure and migrate an existing network to the platform Scale applications seamlessly and make sure your security is air-tight Updated to include expanded information on data resources, machine learning, artificial intelligence, and collaboration, Microsoft Azure For Dummies, 2nd Edition answers the call for an entry-level, comprehensive guide that provides a simple-to-understand primer on core Azure services. It's an invaluable resource for IT managers and others arriving at the platform for the first time.

**Learn Docker in a Month of Lunches** Elton Stoneman, 2020-06-13 Summary Go from zero to 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.

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**Kubernetes Microservices with Docker** Deepak Vohra, 2016-04-16 Start using Kubernetes in complex big data and enterprise applications, including Docker containers. Starting with installing Kubernetes on a single node, the book introduces Kubernetes with a simple Hello example and discusses using environment variables in Kubernetes. Next, Kubernetes Microservices with Docker discusses using Kubernetes with all major groups of technologies such as relational databases, NoSQL databases, and in the Apache Hadoop ecosystem. The book concludes with using multi container pods and installing Kubernetes on a multi node cluster. /div a concise but clear introduction to containers, Docker and Kubernetes, using simple real-world examples to pass on the core concepts, via repetition, and is a very useful enabler. 10/10 Dave Hay MBCS CITP: review for BCS, The Chartered Institute for IT (<http://www.bcs.org/content/conWebDoc/58512>) What You Will Learn Install Kubernetes on a single node Set environment variables Create multi-container pods using Docker Use volumes Use Kubernetes with the Apache Hadoop ecosystem, NoSQL databases, and RDBMSs Install Kubernetes on a multi-node cluster Who This Book Is For Application developers including Apache Hadoop developers, database developers and NoSQL developers.

*Microsoft Azure Infrastructure Services for Architects* John Savill, 2019-10-29 An expert guide for IT administrators needing to create and manage a public cloud and virtual network using Microsoft Azure With Microsoft Azure challenging Amazon Web Services (AWS) for market share, there has been no better time for IT professionals to broaden and expand their knowledge of Microsoft's flagship virtualization and cloud computing service. Microsoft Azure Infrastructure

Services for Architects: Designing Cloud Solutions helps readers develop the skills required to understand the capabilities of Microsoft Azure for Infrastructure Services and implement a public cloud to achieve full virtualization of data, both on and off premise. Microsoft Azure provides granular control in choosing core infrastructure components, enabling IT administrators to deploy new Windows Server and Linux virtual machines, adjust usage as requirements change, and scale to meet the infrastructure needs of their entire organization. This accurate, authoritative book covers topics including IaaS cost and options, customizing VM storage, enabling external connectivity to Azure virtual machines, extending Azure Active Directory, replicating and backing up to Azure, disaster recovery, and much more. New users and experienced professionals alike will: Get expert guidance on understanding, evaluating, deploying, and maintaining Microsoft Azure environments from Microsoft MVP and technical specialist John Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies Understand how to design and implement serverless and hybrid solutions Learn to use enterprise security guidelines for Azure deployment Offering the most up to date information and practical advice, Microsoft Azure Infrastructure Services for Architects: Designing Cloud Solutions is an essential resource for IT administrators, consultants and engineers responsible for learning, designing, implementing, managing, and maintaining Microsoft virtualization and cloud technologies.

*CompTIA Linux+ Study Guide* Christine Bresnahan, Richard Blum, 2019-06-19 The bestselling study guide completely updated for the NEW CompTIA Linux+ Exam XK0-004 This is your one-stop resource for complete coverage of Exam XK0-004, covering 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to superior content including,

assessment tests that check exam readiness, objective map, real-world scenarios, hands-on exercises, key topic exam essentials, and challenging chapter review questions. Linux is a UNIX-based operating system originally created by Linus Torvalds with the help of developers around the world. Developed under the GNU General Public License, the source code is free. Because of this Linux is viewed by many organizations and companies as an excellent, low-cost, secure alternative to expensive OSs, such as Microsoft Windows. The CompTIA Linux+ exam tests a candidate's understanding and familiarity with the Linux Kernel. As the Linux server market share continues to grow, so too does demand for qualified and certified Linux administrators. Building on the popular Sybex Study Guide approach, this book will provide 100% coverage of the NEW Linux+ Exam XK0-004 objectives. The book contains clear and concise information on all Linux administration topic, and includes practical examples and insights drawn from real-world experience. Hardware and System Configuration Systems Operation and Maintenance Security Linux Troubleshooting and Diagnostics Automation and Scripting You'll also have access to an online test bank, including a bonus practice exam, electronic flashcards, and a searchable PDF of key terms.

Docker Deep Dive Nigel Poulton, 2020-10-29 Start from scratch and develop the essential skills needed to create, deploy, and manage cloud-native applications using Docker Key Features Get a solid understanding of Docker and containers Overcome common problems while containerizing an application Master Docker commands needed for creating, deploying, and running applications Book Description Most applications, even the funky cloud-native microservices ones, need high-performance, production-grade infrastructure to run on. Having impeccable knowledge of Docker will help you to thrive in the modern cloud-first world. With this book, you'll gain the skills you need to work with Docker and its containers. The book begins with an introduction to containers and

explains its functionality and application in the real world. You'll then get an overview of VMware, Kubernetes, and Docker and learn to install Docker on Windows, Mac, and Linux. Once you've understood the Ops and Dev perspective of Docker, you'll be able to see the big picture and understand what Docker exactly does. The book then turns its attention to the more technical aspects, guiding you through practical exercises covering Docker engine, Docker images, and Docker containers. You'll learn techniques for containerizing an app, deploying apps with Docker Compose, and managing cloud-native applications with Swarm. You'll also build Docker networks and Docker overlay networks and handle applications that write persistent data. Finally, you'll deploy apps with Docker stacks and secure your Docker environment. By the end of this book, you'll be well-versed in Docker and containers and have developed the skills to create, deploy, and run applications on the cloud. What you will learn

Become familiar with the applications of Docker and containers  
Discover how to pull images into Docker host's local registry  
Find out how to containerize an app  
Build and test a Docker overlay network in the swarm mode  
Use Docker compose to deploy and manage multi-container applications  
Securely share sensitive data with containers and Swarm services

Who this book is for  
Whether you are a beginner or an experienced developer looking to utilize Docker to develop and operate cloud-native microservices apps, this book is for you. Anyone who wants to learn Docker orchestration, networking, imaging, and security will also find it useful. No prior knowledge of Docker is necessary.

Microservices Security in Action Wajjakkara Kankanamge Anthony Nuwan Dias, Prabath Siriwardena, 2020-07-11 "A complete guide to the challenges and solutions in securing microservices architectures." —Massimo Siani, FinDynamic Key Features Secure microservices infrastructure and code Monitoring, access control, and microservice-to-microservice communications Deploy securely

using Kubernetes, Docker, and the Istio service mesh. Hands-on examples and exercises using Java and Spring Boot Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Microservices Security in Action teaches you how to address microservices-specific security challenges throughout the system. This practical guide includes plentiful hands-on exercises using industry-leading open-source tools and examples using Java and Spring Boot. About The Book Design and implement security into your microservices from the start. Microservices Security in Action teaches you to assess and address security challenges at every level of a Microservices application, from APIs to infrastructure. You'll find effective solutions to common security problems, including throttling and monitoring, access control at the API gateway, and microservice-to-microservice communication. Detailed Java code samples, exercises, and real-world business use cases ensure you can put what you've learned into action immediately. What You Will Learn Microservice security concepts Edge services with an API gateway Deployments with Docker, Kubernetes, and Istio Security testing at the code level Communications with HTTP, gRPC, and Kafka This Book Is Written For For experienced microservices developers with intermediate Java skills. About The Author Prabath Siriwardena is the vice president of security architecture at WSO2. Nuwan Dias is the director of API architecture at WSO2. They have designed secure systems for many Fortune 500 companies. Table of Contents PART 1 OVERVIEW 1 Microservices security landscape 2 First steps in securing microservices PART 2 EDGE SECURITY 3 Securing north/south traffic with an API gateway 4 Accessing a secured microservice via a single-page application 5 Engaging throttling, monitoring, and access control PART 3 SERVICE-TO-SERVICE COMMUNICATIONS 6 Securing east/west traffic with certificates 7 Securing east/west traffic with JWT 8 Securing east/west traffic over gRPC 9 Securing reactive microservices PART 4 SECURE

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*Mastering Windows Server 2016 Hyper-V* John Savill, 2016-11-28 Build a seamless, flexible, full-service datacenter solution Microsoft Windows Server 2016 Hyper-V is the IT administrator's guide to this rising datacenter solution. Hyper-V has already surpassed VMWare in datacenter management, identity service for multiple devices, and more; this book shows you how to harness the power of this hypervisor to simplify the infrastructure, reduce costs, improve productivity, and better manage system resources. From a tour of the technology through architecture, deployment, and integration of System Center, Microsoft Azure, and Microsoft Azure Stack, the discussion illustrates the skills you need to create a complete solution for optimum enterprise management. Coverage includes Windows Azure capabilities for virtual machines, managing a hybrid cloud, IaaS, storage capabilities, PowerShell, and more, with practical real-world guidance from a leading authority in the field. Hyper-V has recently undergone improvements in scalability and features that have positioned it as an ideal solution in the Small/Medium Business and Enterprise markets. This book shows you how to exploit these new capabilities to build a robust data solution for your organization. Discover the capabilities of Microsoft Hyper-V Architect a Hyper-V datacenter solution Plan and manage a deployment or migration Integrate complementary technologies for full scalability Data is everywhere—on desktops, laptops, phones, and multiple operating systems, accessed through email, text messages, web searches, online services, and more. All of this data must be stored, accessible, updated, backed up, secured, managed, sorted, and analyzed—sometimes instantly. Hyper-V is the rising star in the virtualization space, and Microsoft

Windows Server 2016 Hyper-V shows you how to turn greater capabilities into better datacenter solutions.

**Network Functions Virtualization (NFV) with a Touch of SDN** Rajendra Chayapathi, Syed Farrukh Hassan, Paresh Shah, 2016-11-14 Network Functions Virtualization (NFV) will drive dramatic cost reductions while also accelerating service delivery. Using NFV with SDN, network owners can provision new functions rapidly on demand, improve scalability, and leverage microservices. Benefits like these will make NFV indispensable for service providers, mobile operators, telcos, and enterprises alike. Network Functions Virtualization (NFV) with a Touch of SDN is the first practical introduction to NFV's fundamental concepts, techniques, and use cases. Written for wide audiences of network engineers, architects, planners, and operators, it assumes no previous knowledge of NFV architecture, deployment, or management. The authors first explain how virtualization, VMs, containers, and related technologies establish the foundation for the NFV transformation. Next, they show how these concepts and technologies can be applied to virtualize network functions in the cloud, data centers, routing, security, and the mobile packet core. You'll discover new tools and techniques for managing and orchestrating virtualized network devices, and gain new clarity on how SDN and NFV interact and interrelate. By the time you're done, you'll be ready to assess vendor claims, evaluate architectures, and plan NFV's role in your own networks. Understand NFV's key benefits and market drivers Review how virtualization makes NFV possible Consider key issues associated with NFV network design and deployment Integrate NFV into existing network designs Orchestrate, build, and deploy NFV networks and cloud services Maximize operational efficiency by building more programmable, automated networks Understand how NFV and SDN work together Address security, programmability, performance, and service function chaining Preview evolving

concepts that will shape NFV's future

**CompTIA Security+ SY0-601 Exam Cram** Martin M. Weiss, 2020-10-30 Prepare for CompTIA Security+ SY0-601 exam success with this Exam Cram from Pearson IT Certification, a leader in IT certification. This is the eBook edition of the CompTIA Security+ SY0-601 Exam Cram, Sixth Edition. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition. CompTIA Security+ SY0-601 Exam Cram, Sixth Edition, is the perfect study guide to help you pass the newly updated version of the CompTIA Security+ exam. It provides coverage and practice questions for every exam topic. Extensive prep tools include quizzes, Exam Alerts, and our essential last-minute review Cram Sheet. Covers the critical information you'll need to know to score higher on your Security+ SY0-601 exam! Assess the different types of threats, attacks, and vulnerabilities organizations face Understand security concepts across traditional, cloud, mobile, and IoT environments Explain and implement security controls across multiple environments Identify, analyze, and respond to operational needs and security incidents Understand and explain the relevance of concepts related to governance, risk and compliance

**5G Wireless** William Stallings, 2021-07-05 Gain a Deep, Practical Understanding of 5G Technology, Applications, Architecture, Standards, and Ecosystem The 5G ultra-high-speed wireless communication standard is a major technological leap forward--substantially increasing speed and capacity, enhancing current use cases, and making many new applications practical. For technical professionals, managers, and students, 5G requires significant new knowledge and expertise. In 5G Wireless: A Comprehensive Introduction, renowned information technology author William Stallings presents a comprehensive and unified explanation of 5G's key applications, technologies, and standards. Like Stallings' other award-winning texts, this guide will help you quickly find the



information and gain the mastery to succeed with critical new technology. Stallings first explains how cellular networks have evolved through 4G and now 5G, and surveys 5G's application areas and use cases. Next, he thoroughly introduces the 5G core network, covering SDN, NFV, network slicing, QoS, and edge computing--and provides a detailed coverage of the 5G air interface and radio access network. Throughout, key concepts are illuminated through realistic examples, review questions help you test your understanding, and references support further exploration. Understand the 5G ecosystem, its building blocks, standards, and R&D roadmaps Explore the Enhanced Mobile Broadband (eMBB) use case, where 5G enhances 4G in applications such as smart offices and dense urban communications Learn how Massive Machine Type Communications (mMTC) and Ultra-Reliable and Low-Latency Communications (URLCC) support new applications such as fog, IoT, and cloud Discover how 5G NextGen core (backbone) networks serve and interconnect wireless access networks that connect user devices Master key 5G NR Air Interface and Radio Access Network (RAN) concepts, including millimeter-wave transmission, MIMO antennas, and OFDM multiplexing

*Azure Architecture Explained* David Rendón, Brett Hargreaves, 2023-09-22 Enhance your career as an Azure architect with cutting-edge tools, expert guidance, and resources from industry leaders Key Features Develop your business case for the cloud with technical guidance from industry experts Address critical business challenges effectively by leveraging proven combinations of Azure services Tackle real-world scenarios by applying practical knowledge of reference architectures Purchase of the print or Kindle book includes a free PDF eBook Book Description Azure is a sophisticated technology that requires a detailed understanding to reap its full potential and employ its advanced features. This book provides you with a clear path to designing optimal cloud-based solutions in Azure, by delving into the platform's intricacies. You'll begin by understanding the

effective and efficient security management and operation techniques in Azure to implement the appropriate configurations in Microsoft Entra ID. Next, you'll explore how to modernize your applications for the cloud, examining the different computation and storage options, as well as using Azure data solutions to help migrate and monitor workloads. You'll also find out how to build your solutions, including containers, networking components, security principles, governance, and advanced observability. With practical examples and step-by-step instructions, you'll be empowered to work on infrastructure-as-code to effectively deploy and manage resources in your environment. By the end of this book, you'll be well-equipped to navigate the world of cloud computing confidently. What you will learn

- Implement and monitor cloud ecosystem including, computing, storage, networking, and security
- Recommend optimal services for performance and scale
- Provide, monitor, and adjust capacity for optimal results
- Craft custom Azure solution architectures
- Design computation, networking, storage, and security aspects in Azure
- Implement and maintain Azure resources effectively

Who this book is for This book is an indispensable resource for Azure architects looking to develop cloud-based services along with deploying and managing applications within the Microsoft Azure ecosystem. It caters to professionals responsible for crucial IT operations, encompassing budgeting, business continuity, governance, identity management, networking, security, and automation. If you have prior experience in operating systems, virtualization, infrastructure, storage structures, or networking, and aspire to master the implementation of best practices in the Azure cloud, then this book will become your go-to guide.

**Architecting IoT Solutions on Azure** Blaize Stewart, 2024-01-09 How can you make sense of the complex IoT landscape? With dozens of components ranging from devices to metadata about the devices, it's easy to get lost among the possibilities. But it's not impossible if you have the right

guide to help you navigate all the complexities. This practical book shows developers, architects, and IT managers how to build IoT solutions on Azure. Author Blaize Stewart presents a comprehensive view of the IoT landscape. You'll learn about devices, device management at scale, and the tools Azure provides for building globally distributed systems. You'll also explore ways to organize data by choosing the appropriate dataflow and data storage technologies. The final chapters examine data consumption and solutions for delivering data to consumers with Azure. Get the architectural guidance you need to create holistic solutions with devices, data, and everything in between. This book helps you: Meet the demands of an IoT solution with Azure-provided functionality Use Azure to create complete scalable and secure IoT systems Understand how to articulate IoT architecture and solutions Guide conversations around common problems that IoT applications solve Select the appropriate technologies in the Azure space to build IoT applications

**Cyber Security, Cryptology, and Machine Learning** Shlomi Dolev,Jonathan Katz,Amnon Meisels,2022-06-23 This book constitutes the refereed proceedings of the 6th International Symposium on Cyber Security Cryptography and Machine Learning, CSCML 2022, held in Be'er Sheva, Israel, in June - July 2022. The 24 full and 11 short papers presented together with a keynote paper in this volume were carefully reviewed and selected from 53 submissions. They deal with the theory, design, analysis, implementation, or application of cyber security, cryptography and machine learning systems and networks, and conceptually innovative topics in these research areas.

**Spring Microservices in Action, Second Edition** John Carnell,Illary Huaylupo Sánchez,2021-06-08 By dividing large applications into separate self-contained units, Microservices are a great step toward reducing complexity and increasing flexibility. Spring Microservices in Action, Second Edition teaches you how to build microservice-based applications using Java and the

Spring platform. This second edition is fully updated for the latest version of Spring, with expanded coverage of API routing with Spring Cloud Gateway, logging with the ELK stack, metrics with Prometheus and Grafana, security with the Hashicorp Vault, and modern deployment practices with Kubernetes and Istio. about the technology Microservices break up your code into independent interconnected services that require careful forethought and design. Fortunately, Spring Boot, Spring Cloud, and Spring Cloud Gateway simplify the tedious plumbing and infrastructure setup required for microservice applications. Spring Boot removes the boilerplate code involved with writing a REST-based service. Spring Cloud provides a suite of tools for the discovery, routing, and deployment of microservices to the enterprise and the cloud. Spring Cloud Gateway provides a clear and effective routing to APIs, with a single entry point into a system. Together, they make it a snap to spin up Spring applications as microservices and wire them together into a reliable, scalable system. about the book Fully updated and upgraded for the latest version of Spring, Spring Microservices in Action, Second Edition is an expanded revision of a Manning bestseller. In it, you'll learn how to build microservice-based applications using Java and the Spring platform and how to efficiently monitor and log your microservices operations. Throughout the book, carefully selected real-life examples expose microservice-based patterns for configuring, routing, scaling, and deploying your services. You'll see how Spring's intuitive tooling can help augment and refactor existing applications with microservices and how Spring Cloud Gateway makes it easy to handle multiple APIs with a single tool. You'll also pick up best practices for using Spring with modern deployment platforms based on Kubernetes and Istio. what's inside Core microservice design principles Microservices best practices Using docker containers to run microservices Managing configuration with Spring Cloud Config and Hashicorp Vault for sensitive information Client-side

resiliency with Hystrix, and Ribbon Managing application metrics with Prometheus and Grafana  
Intelligent routing using Spring Cloud Gateway Distributed tracing with Spring Cloud Sleuth, Zipkin  
and ELK Stack Deploying Spring Cloud applications with Kubernetes and Istio about the reader This  
book is written for developers with Java and Spring experience. about the authors John Carnell is a  
senior cloud engineer with twenty years of experience in Java. Illary Huaylupo Sánchez is a software  
engineer with an MBA in IT management and over twelve years of experience in Java.

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