Professional Expertise Distilled

Learning Microsoft Azure

A comprehensive guide to cloud application development using Microsoft Azure

Geoff Webber-Cross

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Learning Microsoft Azure Geoff Webber-Cross,2014-10-16 If you are a developer interested in building systems for Microsoft Azure with an understanding of efficient cloud based application development then this is the book for you

Microsoft Azure Storage Essentials Chukri Soueidi,2015-08-28 Harness the power of Microsoft Azure services to build efficient cloud solutions About This Book Get to grips with the features of Microsoft Azure in terms of Blob Table Queue and File storage Learn the how and when of using the right storage service for different business use cases Make use of Azure storage services in various languages with this fast paced and easy to follow guide Who This Book Is For If you are an IT professional with basic knowledge of Microsoft Azure and want to learn Azure storage services then this book is for you Some familiarity with C and Visual Studio is needed in order to utilize the examples present in the book What You Will Learn h2ulliGet familiar with Windows Azure Storage Service in terms of architecture and working liliRecognize the libraries and tools offered by Azure storage supporting several popular programming languages liliKnow how the storage services expose their resources as REST APIs and what client libraries exists to develop against the storage liliGain the understanding of types of Blobs and best ways to upload and retrieve them liliLearn how to make use of Tables as a NoSQL data store and how to retrieve insert update and delete entities in terms of design patterns liliUse Queue storage as a messaging solution for communications between different apps liliCreate mounted shares and allow legacy systems to access data using the SMB protocol liliGet accustomed to deal with faults monitor storage metrics and logs li ulh2In DetailpWith the many advantages of using cloud computing Azure Storage is a robust platform that helps you shift faster to the cloud by providing scalable durable and highly available data storage options For developers it provides a rapid development environment that supports building large scale applications to support new scenarios on the cloud server mobile and web For IT professionals it reduces complexity of managing protecting and replicating data ppThis book will make you familiar with the Azure storage in terms of architecture and components It starts with the basics of storage accounts which give access to the four basic services the Blob Table Queue and File storage services These services are exposed through a REST API that makes it possible for client libraries to implement most of their functionality in a wide range of popular programming languages Emphasizing the Windows Azure Client Library for NET we will deal with storing and retrieving unstructured data with Blobs then will move to Tables to insert and update entities in a structured NoSQL fashion Then we will discover Queues as a reliable messaging service and after that we will show File storage that allows you to migrate legacy applications data to the cloud to end with transient fault handling and service monitoring ph2Style and approach h2pThis book is a concise and fast paced guide to learn about development for storage services Each topic is elaborated sequentially in order to create basic knowledge for using it in the right place and the correct way   Building Web Services with Microsoft Azure Alex Belotserkovskiy,Stephen Kaufman,Nikhil Sachdeva,2015-05-27 If you are a NET developer who wants to develop end to end RESTful applications in

the cloud then this book is for you A working knowledge of C will help you get the most out of this book *Mastering Linux Administration* Alexandru Calcatinge,Julian Balog,2021-06-18 Develop advanced skills for working with Linux systems on premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem packages users processes and daemonsDeploy Linux to the cloud with AWS Azure and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on premises and in the cloud This book covers the important topics you need to know about for your everyday Linux administration tasks The book starts by helping you understand the Linux command line and how to work with files packages and filesystems You ll then begin administering network services and hardening security and learn about cloud computing containers and orchestration Once you ve learned how to work with the command line you ll explore the essential Linux commands for managing users processes and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers As you advance through the chapters you ll work with containers hypervisors virtual machines Ansible and Kubernetes You ll also learn how to deploy Linux to the cloud using AWS and Azure By the end of this Linux book you ll be well versed with Linux and have mastered everyday administrative tasks using workflows spanning from on premises to the cloud If you also find yourself adopting DevOps practices in the process we ll consider our mission accomplished What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem network security and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux AppArmor and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration this book is for you Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book *Hands-On Linux for Architects* Denis Salamanca,Esteban Flores,2019-04-30 Explore practical use cases to learn everything from Linux components and functionalities through to hardware and software support Key FeaturesGain a clear understanding of how to design a Linux environmentLearn more about the architecture of the modern Linux operating system OS Understand infrastructure needs and design a high performing computing environmentBook Description It is very important to understand the flexibility of an infrastructure when designing an efficient environment In this book you will cover everything from Linux components and functionalities through to hardware and software support which will help you to implement and tune effective Linux based solutions This book gets started with an overview of Linux design methodology Next you will focus on the core concepts of designing a solution As you progress you will gain insights

into the kinds of decisions you need to make when deploying a high performance solution using Gluster File System GlusterFS In the next set of chapters the book will guide you through the technique of using Kubernetes as an orchestrator for deploying and managing containerized applications In addition to this you will learn how to apply and configure Kubernetes for your NGINX application You ll then learn how to implement an ELK stack which is composed of Elasticsearch Logstash and Kibana In the concluding chapters you will focus on installing and configuring a Saltstack solution to manage different Linux distributions and explore a variety of design best practices By the end of this book you will be well versed with designing a high performing computing environment for complex applications to run on By the end of the book you will have delved inside the most detailed technical conditions of designing a solution and you will have also dissected every aspect in detail in order to implement and tune open source Linux based solutions What you will learnStudy the basics of infrastructure design and the steps involvedExpand your current design portfolio with Linux based solutionsDiscover open source software based solutions to optimize your architectureUnderstand the role of high availability and fault tolerance in a resilient designIdentify the role of containers and how they improve your continuous integration and continuous deployment pipelinesGain insights into optimizing and making resilient and highly available designs by applying industry best practicesWho this book is for This intermediate level book is for Linux system administrators Linux support engineers DevOps engineers Linux consultants or any open source technology professional looking to learn or expand their knowledge in architecting designing and implementing solutions based on Linux and open source software Prior experience in Linux is required   *Xamarin.Forms Projects* Daniel Hindrikes,Johan Karlsson,2020-06-19 Learn to build cross platform mobile apps using the latest features in Xamarin Forms 4 with the help of a series of projects including apps for real time chatting AR games location tracking weather photo galleries and much more Key FeaturesDevelop mobile apps AR games and chatbots of varying complexity with the help of real world examplesExplore the important features of Xamarin Forms 4 such as Shell CollectionView and CarouselViewGet to grips with advanced concepts such as AR and VR and machine learning for mobile developmentBook Description Xamarin Forms is a lightweight cross platform development toolkit for building apps with a rich user interface Improved and updated to cover the latest features of Xamarin Forms this second edition covers CollectionView and Shell along with interesting concepts such as augmented reality AR and machine learning Starting with an introduction to Xamarin and how it works this book shares tips for choosing the type of development environment you should strive for when planning cross platform mobile apps You ll build your first Xamarin Forms app and learn how to use Shell to implement the app architecture The book gradually increases the level of complexity of the projects guiding you through creating apps ranging from a location tracker and weather map to an AR game and face recognition As you advance the book will take you through modern mobile development frameworks such as SQLite NET Core Mono ARKit and ARCore You ll be able to customize your apps for both Android and iOS platforms to achieve native like performance and speed The

book is filled with engaging examples so you can grasp essential concepts by writing code instead of reading through endless theory By the end of this book you ll be ready to develop your own native apps with Xamarin Forms and its associated technologies such as NET Core Visual Studio 2019 and C What you will learnSet up Xamarin Forms to build native apps with code sharing capabilitiesUnderstand the core aspects of developing a mobile app such as its layout UX and renderingUse custom renderers to gain platform specific accessDiscover how to create custom layouts for your apps with Xamarin Forms ShellUse Azure SignalR to implement serverless services in your Xamarin appsCreate an augmented reality AR game for Android and iOS using ARCore and ARKit respectivelyBuild and train machine learning models using CoreML TensorFlow and Azure Cognitive ServicesWho this book is for This book is for C and NET developers who want to learn Xamarin Forms and get started with native Xamarin mobile application development from the ground up Working knowledge of Visual Studio will help you to get the most out of this book   Learning Microsoft Azure Geoff Webber-Cross,2014 A comprehensive guide to cloud application development using Microsoft Azure In Detail This book guides you through the process of building a Microsoft Azure system based around a case study for an industrial bakery with three business domains Starting with the system design and selection of the correct Azure services the book progresses by building the system in scalable decoupled tiers The book will teach you how to implement a scalable architecture using Azure Service Bus topics allowing customer orders to be sent between decoupled business domains and processed by scalable worker roles Azure Active Directory is implemented across all internal systems in the case study including websites client applications and mobile applications to create a unified authentication experience This book will take you through the processes of developing deploying and maintaining Microsoft Azure hosted systems What You Will Learn Design scalable resilient systems for Azure Create MVC websites and cloud services Build Azure SQL Databases with Entity Framework Code First Migrations Use Azure Service Bus to decouple system tiers Integrate client applications with Web API and SignalR on Azure Build apps with mobile services and notifications hub Implement Azure Active Directory across the entire system   **Learning Windows Azure Mobile Services for Windows 8 and Windows Phone 8** Geoff Webber-Cross,2014-01 This book is based around a case study game which was written for the book This means that the chapters progress in a logical way and build upon lessons learned as we go Realworld examples are provided for each topic that are practical and not given outofcontext so they can be applied directly to other applications If you are a developer who wishes to build Windows 8 and Phone 8 applications and integrate them with Windows Azure Mobile Services this book is for you Basic C and JavaScript skills are advantageous as well as some knowledge of building Windows 8 or Windows Phone 8 applications   **Learning Microsoft Azure** Jonah Carrio Andersson,2023-11-20 If your organization plans to modernize services and move to the cloud from legacy software or a private cloud on premises this book is for you Software developers solution architects cloud engineers and anybody interested in cloud technologies will learn fundamental concepts for cloud computing migration transformation and

development using Microsoft Azure Author and Microsoft MVP Jonah Carrio Andersson guides you through cloud computing concepts and deployment models the wide range of modern cloud technologies application development with Azure team collaboration services security services and cloud migration options in Microsoft Azure You ll gain insight into the Microsoft Azure cloud services that you can apply in different business use cases software development projects and modern solutions in the cloud You ll also become fluent with Azure cloud migration services serverless computing technologies that help your development team work productively Azure IoT and Azure cognitive services that make your application smarter This book also provides real world advice and best practices based on the author s own Azure migration experience Gain insight into which Azure cloud service best suits your company s particular needs Understand how to use Azure for different use cases and specific technical requirements Start developing cloud services applications and solutions in the Azure environment Learn how to migrate existing legacy applications to Microsoft Azure   *Microsoft Azure Essentials Azure Machine Learning* Jeff Barnes,2015-04-25 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   *Learn Azure in a Month of Lunches, Second Edition* Iain Foulds,2020-10-06 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

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to learn Azure fast Microsoft Azure is a cloud service that can be used to for building testing and managing applications and services through a network of servers managed by Microsoft in various locations all over the world When you understand how to use Azure you unlock a world of computing power and possibilities Get the most out of Azure simply by following the easy instructions fully explained inside this guide It doesn t matter if you have never used Azure before This step by step guide gives you everything you need to know to do more with Azure than you ever thought possible Fully up to date for 2018 The world of cloud services is changing constantly and yesterday s instructions are useless today Save yourself the headache and frustration of trying to use a guide that just doesn t work anymore Brand new for 2018 this guide shows you exactly what you need to do to get up and running on Microsoft Azure today Here is a preview of what you will learn in this guide Infrastructure as a Service IaaS Platform as a Service PaaS Software as a Service SaaS Public Private and Hybrid Clouds Cloud Computing and Security Issues The Importance of Geopolitics in Cloud Computing Overview of Available Azure Services Development with Azure Mobile services in Azure Azure Storage services Data management Functions in Azure Messaging Functions on Microsoft Azure Media services in Azure Azure s Content Delivery Network Developer Tools in Azure Application Management with Azure Machine learning Capabilities in Azure Azure and the Internet of Things IoT Design of Microsoft Azure Privacy and Microsoft Azure Creating a Windows Virtual Machine Creating a Linux Virtual Machine And so much more If you aren t a tech savvy person have no fear With this guide in your hands that will not be a barrier for you any longer Learn Microsoft Azure quickly and easily when you grab this guide now **Learning Microsoft Azure** Vijay Saini,2020 Get a firm grip on Microsoft Azure through real world exercises About This Video Build a solid foundation of cloud concepts and Azure architectural components Learn through Azure real world example to clear Az 900 exam Explore real world small projects and practice labs In Detail The primary reason for Microsoft Azure s immense popularity is that it supports a wide range of operating systems tools databases programming languages and devices This course starts off by introducing to you the Microsoft s platform for the cloud You will then explore Azure web services and storage In the concluding sections you will deploy a Windows Azure cloud service and implement advanced cloud service functionalities By the end of this course you ll be become skilled enough to confidently operate Microsoft Azure to achieve business objectives This course can be taken by absolute beginners including candidates with non technical backgrounds such as those involved in selling or purchasing cloud based solutions and services or who have some involvement with cloud based solutions and services as well as those with a technical background who want to brush up their fundamentals around cloud services and Azure *Exam Ref 70-774 Perform Cloud Data Science with Azure Machine Learning* Ginger Grant,Julio Granados,Guillermo Fernandez,Pau Sempere,Javier Torrenteras,Paco Gonzalez,Tamanaco Francísquez,2018-03-01 Prepare for Microsoft Exam 70 774 and help demonstrate your real world mastery of performing key data science activities with Azure Machine Learning services Designed for experienced IT professionals ready to advance their status Exam Ref focuses

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functions providing enterprise level security and compliance to your serverless code architecture By the end of this book you will have all the skills required to work with serverless code architecture providing continuous delivery to your users Style and approach This recipe based guide explains the different features of Azure Function by taking a real world application related to a specific domain You will learn how to implement automation and DevOps and discover industry best practices to develop applications hosted on serverless architecture using Azure functions **Using Chef with Microsoft Azure** Stuart Preston,2016-05-18 This book is your hands on guide to infrastructure provisioning and configuration management in the cloud using Chef s open source cross platform toolset With over 10 000 customers joining the Microsoft Azure cloud platform each week and steadily increasing usage the need for automation approaches has never been greater This book provides both practical examples and a much needed strategic overview of how these two technologies can be combined Using Chef with Microsoft Azure takes you through the process of writing recipes in Chef to describe your infrastructure as code and simplify your configuration management processes You ll also meet the Chef tools that can be used to provision complete environments within Microsoft Azure There are now a wide variety of tools and approaches that can be taken to provision resources such as virtual machines within Microsoft Azure This book demonstrates them discusses the benefits and weaknesses of each approach and shows how a continuous provisioning pipeline can be established as part of a reliable repeatable and robust provisioning process Each chapter has practical exercises that highlight the capabilities of both Chef and Microsoft Azure from an automation perspective and can be executed on Windows Mac or Linux platforms In this book you ll learn The purpose and principles behind automated provisioning Microsoft Azure concepts and management options How to deploy Chef Azure Virtual Machine Extensions using PowerShell Azure command line tools and Chef Provisioning Chef Provisioning techniques including provisioning PaaS resources such as KeyVault How to integrate quality tooling into the Chef development lifecycle including Test Kitchen and InSpec with Azure compute resources How to set up a pipeline for continuous provisioning with Chef and Azure Who This Book Is For This book is for infrastructure platform and operations engineers and DevOps specialists practitioners working with infrastructure and platform provisioning on Microsoft s public cloud Azure An understanding of programming in any language would be beneficial but not necessary as the examples are designed to be easily readable by anyone with general IT experience While it is expected most users picking up this book will be on the Windows platform a good proportion of compute workload on the Azure platform is Linux based As a result the book includes examples that are relevant to both Windows and Linux platforms Microsoft Certified Azure Fundamentals Study Guide with Online Labs Jim Boyce,2021-07-07 Everything You Need to Succeed on the Azure Fundamentals Exam Now with 4 Online Lab Modules If you re about to start working with cloud based services for the first time the Microsoft Azure Fundamentals certification will equip you with all the basic knowledge you need This Study Guide provides the tried and true Sybex system to help you prepare for Exam AZ 900 whether or not you re an IT professional Focusing on core Azure services

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