

Microsoft Azure Iaas Essentials

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Azure IoT Development Cookbook - Yatish Patil 2017-08-11

Over 50 recipes to drive IoT innovation with Microsoft Azure About This Book Build secure and scalable IoT solutions with Azure IoT platform Learn techniques to build end to end IoT solutions leveraging the Azure IoT platform Filled with practical recipes to help you increase connectivity and automation across IoT devices Who This Book Is For If you are an application developer and want to build robust and secure IoT solution for your organization using Azure IoT, then this book is for you. What You Will Learn Build IoT Solutions using Azure IoT & Services Learn device configuration and communication protocols Understand IoT Suite and Pre-configured solutions Manage Secure Device communications Understand Device management, alerts Introduction with IoT Analytics, reference IoT Architectures Reference Architectures from Industry Pre-Configured IoT Suite solutions In Detail Microsoft's end-to-end IoT platform is the most complete IoT offering, empowering enterprises to build and realize value from IoT solutions efficiently. It is important to develop robust and reliable solutions for your organization to leverage IoT services. This book focuses on how to start building custom solutions using the IoT hub or the preconfigured solution of Azure IoT suite. As a developer, you will be taught how to connect multiple devices to the Azure IoT hub, develop, manage the IoT hub service and integrate the hub with cloud. We will be covering REST APIs along with HTTP, MQTT and AMQP protocols. It also helps you learn Pre-Configured IoT Suite solution. Moving ahead we will be covering

topics like:-Process device-to-cloud messages and cloud-to-device messages using .Net-Direct methods and device management-Query Language, Azure IoT SDK for .Net-Creating and managing, Securing IoT hub, IoT Suite and many more. We will be using windows 10 IoT core, Visual Studio, universal Windows platform. At the end, we will take you through IoT analytics and provide a demo of connecting real device with Azure IoT. Style and approach A set of exciting recipes of using Microsoft Azure IoT more effectively.

[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, Azure pricing, SLA, and lifecycle, as well as the fundamentals of cloud security, privacy, compliance, and trust, this book supplies all the essential information. Reinforce your study with the exclusive Sybex online learning environment, and you'll be ready to face the exam with confidence. Coverage of 100% of all exam objectives in this Study Guide means you'll be ready for: Cloud concepts Cloud types (Public, Private, Hybrid) Azure service types (IaaS, SaaS, PaaS) Core Azure services Security, compliance, privacy, and trust Azure pricing levels Legacy and modern lifecycles XtremeLabs provides IT

training environments for Fortune 500 companies and organizations of any size. With a library of more than 900 IT hands-on labs, students and classes have experienced XtremeLabs in more than 150 countries. Interactive learning environment Take your exam prep to the next level with Sybex's superior interactive online study tools. To access our learning environment, simply visit www.wiley.com/go/sybextestprep, register your book to receive your unique PIN, and instantly gain one year of FREE access after activation to: Interactive test bank with 2 practice exams to help you identify areas where further review is needed. Get more than 90% of the answers correct, and you're ready to take the certification exam. 100 electronic flashcards to reinforce learning and last-minute prep before the exam Comprehensive glossary in PDF format gives you instant access to the key terms so you are fully prepared ABOUT THE XTREMELABS MICROSOFT ONLINE LABS So you can practice with hands-on learning in a real environment, Sybex has bundled XtremeLabs Microsoft virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs Microsoft Certified Azure Fundamentals Labs with 4 unique lab modules based on the book.

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.

Microsoft Azure IaaS Essentials - Gethyn Ellis 2015-05-28

This book is intended for system administrators and other IT professionals who need to both design and implement an Azure-based cloud solution. With the help of this book, you will soon master the basic tasks needed to build a cloud-based solution.

Mastering Microsoft Azure Infrastructure Services - John Savill 2015-04-01

Understand, create, deploy, and maintain a public cloud using Microsoft Azure Mastering Microsoft Azure Infrastructure Services guides you through the process of creating and managing a public cloud and virtual network using Microsoft Azure. With step-by-step instruction and clear explanation, this book equips you with the skills required to provide services both on-premises and off-premises through full virtualization, providing a deeper understanding of Azure's capabilities as an infrastructure service. Each chapter includes online videos that visualize and enhance the concepts presented in the book, and access to a Windows app that provides instant Azure

updates and demonstrates the process of going from on-premises to public cloud via Azure. Coverage includes storage customization, connectivity, virtual networks, backing up, hybrid environments, System Center management, and more, giving you everything you need to understand, evaluate, deploy, and maintain environments that utilize Microsoft Azure. Understand cost, options, and applications of Infrastructure as a Service (IaaS) Enable on- and off-premises connectivity to Azure Customize Azure templates and management processes Exploit key technologies and embrace the hybrid environment Mastering Microsoft Azure Infrastructure Services is your total solution.

Building Cloud Apps with Microsoft Azure - Scott Guthrie 2014-07-18

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

Hands-On Cloud Administration in Azure - Mustafa Toroman 2018-10-23

Explore Azure services such as networking, virtual machines, web apps, databases, cloud migration, and security Key Features Understand Azure services to build, deploy, and manage workloads on cloud Learn in-depth core Azure services and work through real-world scenarios and case studies A concise and practical guide for learning cloud administration on Azure Book Description Azure continues to dominate the public cloud market and grow rapidly thanks to a number of recent innovations. Azure's wide range of services and support has led to a large number of customers switching to Azure cloud. Hands-On Cloud Administration in Azure starts with the basics of Azure cloud fundamentals and key concepts of the cloud computing ecosystem and services. Then, you will gradually get acquainted with core services provided by Azure, including Azure VNet, types and assignments of IP addresses, and network security groups. You will also work on creating and administering Azure Virtual Machines, types of virtual machines (VMs), and design VM solutions based on computing workloads. As you make your way through the chapters, you will explore Azure App Service, discover how to host your web apps in Azure, and monitor and troubleshoot them. In the concluding chapters, you will learn more complex and abstract services, such as Azure Storage, Azure Backup, and Azure Site Recovery. You will also get to grips with Azure SQL Databases and the SQL on Azure VM concept. By the end of this book, you will have obtained practical experience of working with Azure services and Azure administration, along with maintaining, monitoring, and securing your Azure resources. What you will learn Understand the concepts of IaaS and PaaS Learn design patterns for Azure solutions Design data solutions in Azure Explore concepts of hybrid clouds with Azure Implement Azure Security in cloud Create and manage Azure resources with script-based tools Who this book is for Hands-On Cloud Administration in

Azure is for system administrators, cloud admins, cloud engineers, and DevOps engineers who are interested in understanding administration-related services in Azure. Prior experience of working with Azure is an added advantage.

2022 Microsoft Azure Fundamentals AZ-900 Certification Exam Preparation - Etienne Noumen

This Azure Fundamentals Exam Prep eBook will prepare you for the Azure Fundamentals AZ900 Certification Exam. This Azure Fundamentals training book is designed for anyone who wants to learn about Azure, even if you have no prior experience with cloud computing. The book covers core Azure services, core solutions and management tools, Azure pricing and support, and more. By the end of this Azure training eBook, you will be able to:

- Describe Core Azure Pricing and Support Features
- Describe Cloud Concepts
- Describe Core Azure Services
- Describe Core Solutions and Management Tools on Azure
- Describe General Security and Network Security Features in Azure
- Describe Identity, Governance, Privacy, and Compliance Features in Azure
- Explain Azure Cost Management and Service Level Agreements

Do you want to become proficient on the Azure Cloud? This e-book can be just the thing you need to make the move into Azure cloud or to level up and advance your career. What will you learn in this book? Learn and Describe Core Azure Pricing and Support Features Learn and Describe Cloud Concepts Learn and Describe core Azure Services Learn and Describe core solutions and management tools on Azure Learn and Describe general security and network security features Learn and Describe identity, governance, privacy, and compliance features Learn and Describe Azure cost management and service level agreements What are the requirements or prerequisites for reading this book? No Programming Experience Required Anyone interested in the cloud Microsoft Users Who is this book for? IT Professionals, Cloud enthusiasts, Students, Administrator, Business User, Developer, Student, Technology Manager. Candidates for this exam are technology professionals who want to demonstrate foundational knowledge of cloud concepts and Microsoft Azure. Candidates can describe Azure

architectural components and Azure services such as compute, networking, and storage. Candidates can also describe features and tools to secure, govern, and administer Azure. Candidates for this exam have skills and experience working with an information technology area, such as infrastructure management, database management, or software development. Book Description: The Azure Fundamentals certification validates your basic knowledge of cloud services and how those services are provided with Azure. Candidates should be able to demonstrate a fundamental knowledge of: Cloud Concepts (25-30%) Core Azure Services (15-20%) Core Solutions and Management Tools on Azure (10-15%) General Security and Network Security Features (10-15%) Identity, governance, privacy, and compliance features (15- 20%) Azure cost management and Service Level Agreements (10-15%) What is primarily taught in your book?

Microsoft Certification for Azure Fundamentals Preparation App version of the book: Azure Fundamentals AZ900 Certification Exam Prep #Azure #AzureFundamentals #AZ900 #AzureTraining #LeranAzure #Djamgatech iOS: <https://apps.apple.com/ca/app/azure-fundamentals-az900-pro/id1553636330> android: <https://play.google.com/store/apps/details?id=com.azurefundamentalspro.enoumen> Windows 10/11:

<https://www.microsoft.com/en-ca/p/azure-fundamentals-az-900-certification-exam-prep/9p1mh2vrq5h5> Web/PWA:

<https://azurefundamentalssexamprep.com>

Microsoft Azure Infrastructure Services for Architects - John Savill 2019-10-01

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.

Azure Strategy and Implementation Guide - Jack Lee 2021-05-14

Leverage Azure's cloud capabilities to find the most optimized path to meet your firm's cloud infrastructure needs Key Features Get to grips with the core Azure infrastructure technologies and solutions Develop the ability to opt for cloud design and architecture that best fits your organization Cover the entire spectrum of cloud migration from planning to implementation and best practices Book Description Microsoft Azure is a powerful cloud computing platform that offers a multitude of services and capabilities for organizations of any size moving to a cloud strategy. This fourth edition comes with the latest updates on cloud security fundamentals, hybrid cloud, cloud migration, Microsoft Azure Active Directory, and Windows Virtual Desktop. It encapsulates the entire spectrum of measures involved in Azure deployment that includes

understanding Azure fundamentals, choosing a suitable cloud architecture, building on design principles, becoming familiar with Azure DevOps, and learning best practices for optimization and management. The book begins by introducing you to the Azure cloud platform and demonstrating the substantial scope of digital transformation and innovation that can be achieved with Azure's capabilities. The guide also acquaints you with practical insights into application modernization, Azure Infrastructure as a Service (IaaS) deployment, infrastructure management, key application architectures, best practices of Azure DevOps, and Azure automation. By the end of this book, you will have acquired the skills required to drive Azure operations from the planning and cloud migration stage to cost management and troubleshooting. What you will learn Understand core Azure infrastructure technologies and solutions Carry out detailed planning for migrating applications to the cloud with Azure Deploy and run Azure infrastructure services Define roles and responsibilities in DevOps Get a firm grip on Azure security fundamentals Carry out cost optimization in Azure Who this book is for This book is designed to benefit Azure architects, cloud solution architects, Azure developers, Azure administrators, and anyone who wants to develop expertise in operating and administering the Azure cloud. Basic familiarity with operating systems and databases will help you grasp the concepts covered in this book.

Briggs - Barry Briggs 2016-01-07

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.

Microsoft Azure For Dummies - Timothy L.

Warner 2020-03-24

Your roadmap to Microsoft Azure is Microsoft's flagship cloud computing platform. With over 600 services available to over 44 geographic regions, it would take a library of books to cover the entire Azure ecosystem. Microsoft Azure For Dummies offers a shortcut to getting familiar with Azure's core product offerings used by the majority of its subscribers. It's a perfect choice for those looking to gain a quick, basic understanding of this ever-evolving public cloud platform. Written by a Microsoft MVP and Microsoft Certified Azure Solutions Architect, Microsoft Azure For Dummies covers building virtual networks, configuring cloud-based virtual machines, launching and scaling web applications, migrating on-premises services to Azure, and keeping your Azure resources secure and compliant. Migrate your applications and services to Azure with confidence Manage virtual machines smarter than you've done on premises Deploy web applications that scale dynamically to save you money and effort Apply Microsoft's latest security technologies to ensure compliance to maintain data privacy With more and more businesses making the leap to run their applications and services on Microsoft Azure, basic understanding of the technology is becoming essential. Microsoft Azure For Dummies offers a fast and easy first step into the Microsoft public cloud.

Microsoft Azure Fundamentals Certification and Beyond - Steve Miles 2022-01-07

Gain in-depth knowledge of Azure fundamentals that will make it easy for you to achieve AZ-900 certification Key Features Get fundamental knowledge of cloud concepts and the Microsoft Azure platform Explore practical exercises to gain experience of working with the Microsoft Azure platform in the real world Prepare to achieve AZ-900 certification on the first go with the help of simplified examples covered in the book Book Description This is the digital and cloud era, and Microsoft Azure is one of the top cloud computing platforms. It's now more important than ever to understand how the cloud functions and the different services that can be leveraged across the cloud. This book will give you a solid understanding of cloud concepts and Microsoft Azure, starting by taking you

through cloud concepts in depth, then focusing on the core Azure architectural components, solutions, and management tools. Next, you will understand security concepts, defense-in-depth, and key security services such as Network Security Groups and Azure Firewall, as well as security operations tooling such as Azure Security Center and Azure Sentinel. As you progress, you will understand how identity, governance, privacy, and compliance are managed in Azure. Finally, you will get to grips with cost management, service-level agreements, and service life cycles. Throughout, the book features a number of hands-on exercises to support the concepts, services, and solutions discussed. This provides you with a glimpse of real-world scenarios, before finally concluding with practice questions for AZ-900 exam preparation. By the end of this Azure book, you will have a thorough understanding of cloud concepts and Azure fundamentals, enabling you to pass the AZ-900 certification exam easily. What you will learn Explore cloud computing with Azure cloud Gain an understanding of the core Azure architectural components Acquire knowledge of core services and management tools on Azure Get up and running with security concepts, security operations, and protection from threats Focus on identity, governance, privacy, and compliance features Understand Azure cost management, SLAs, and service life cycles Who this book is for This Azure fundamentals book is both for those with technical backgrounds and non-technical backgrounds who want to learn and explore the field of cloud computing, especially with Azure. This book will also help anyone who wants to develop a good foundation for achieving advanced Azure certifications. There is no prerequisite for this book except a willingness to learn and explore cloud concepts and Microsoft Azure.

Microsoft Azure Security Center - Yuri Diogenes 2018-06-04

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

Microsoft Azure Essentials Migrating SQL Server Databases to Azure - Carl Rabeler
2016-06-06

Part of the "Microsoft Azure Essentials" series, this ebook helps SQL Server database users understand Microsoft's offering for SQL Server in Azure. Learn how SQL Server in Azure is similar to SQL Server in an on-premises environment, and how they are different. The author, a content lead for Azure.com, walks you through the steps of getting started with SQL Server in an Azure virtual machine and with Azure SQL Database. Follow the numerous screenshots to create a trial subscription, create

SQL Server in an Azure virtual machine, create an Azure SQL Database, migrate an on-premises database to each Azure environment, create users, back up and restore data, and archive data.

[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 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

Microsoft Azure Iaas Essentials - Gethyn Ellis 2015-05-28

This book is intended for system administrators and other IT professionals who need to both design and implement an Azure-based cloud solution. With the help of this book, you will soon master the basic tasks needed to build a cloud-based solution.

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.

Office 365 Essentials - Nuno Árias Silva 2018-05-24

Leverage Office 365 to increase your organization's efficiency by managing users, domains, licenses, and much more in your organization with most powerful subscription software. Key Features Get acquainted with the basics of Office 365 Configure and manage

workloads efficiently using Office 365 A comprehensive guide covering every aspect of planning, and managing this multifaceted collaboration system. Book Description Office 365 is suite of advanced collaboration tools used by many well known organizations and their system administrators. This book starts with an introduction to Office 365 and its basic fundamentals. Then we move towards workload management and deployment. You will delve into identities, authentications, and managing office 365. We also cover concepts such as collaboration with Microsoft teams and tools such as Delve and Skype for collaboration. Towards the end of the book, you'll master monitoring and security concepts. By the end of this book, you will have hands-on experience working with Office 365 and its collaboration tools and services What you will learn Learn how to implement Office 365 from scratch and how to use best practices to be a successful Office 365 professional Understand Microsoft productivity services to take your organization or business to the next level by increasing productivity. Learn how workloads and applications interact and integrate with each other Learn to manage Skype for Business Online Get support and monitor service health with Office 365 Manage and administer identities and groups efficiently Who this book is for If you are working as a system administration or an IT professional and are keen to learn the fundamentals of Office 365, then this book is for you. No prior knowledge of office 365 is necessary.

Microsoft Certified Azure Fundamentals Study Guide - James Boyce 2021-04-13

Quickly preps technical and non-technical readers to pass the Microsoft AZ-900 certification exam Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is your complete resource for preparing for the AZ-900 exam. Microsoft Azure is a major component of Microsoft's cloud computing model, enabling organizations to host their applications and related services in Microsoft's data centers, eliminating the need for those organizations to purchase and manage their own computer hardware. In addition, serverless computing enables organizations to quickly and easily deploy data services without the need for servers, operating systems, and supporting

systems. This book is targeted at anyone who is seeking AZ-900 certification or simply wants to understand the fundamentals of Microsoft Azure. Whatever your role in business or education, you will benefit from an understanding of Microsoft Azure fundamentals. Readers will also get one year of FREE access to Sybex's superior online interactive learning environment and test bank, including hundreds of questions, a practice exam, electronic flashcards, and a glossary of key terms. This book will help you master the following topics covered in the AZ-900 certification exam: Cloud concepts Cloud types (Public, Private, Hybrid) Azure service types (IaaS, SaaS, PaaS) Core Azure services Security, compliance, privacy, and trust Azure pricing levels Legacy and modern lifecycles Growth in the cloud market continues to be very strong, and Microsoft is poised to see rapid and sustained growth in its cloud share. Written by a long-time Microsoft insider who helps customers move their workloads to and manage them in Azure on a daily basis, this book will help you break into the growing Azure space to take advantage of cloud technologies.

Microsoft Azure Essentials Azure Automation - Michael McKeown 2015-04-10

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The second ebook in the series, Microsoft Azure Essentials: Azure Automation, introduces a fairly new feature of Microsoft Azure called Azure Automation. Using a highly scalable workflow execution environment, Azure Automation allows you to orchestrate frequent deployment and life cycle management tasks using runbooks based on Windows PowerShell Workflow functionality. These runbooks are stored in and backed up by Azure. By automating runbooks, you can greatly minimize the occurrence of errors when carrying out repeated tasks and process automation. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

Exam Ref AZ-900 Microsoft Azure Fundamentals - Jim Cheshire 2019-06-05

Prepare for Microsoft Exam AZ-900—and help demonstrate your real-world mastery of cloud services and how they can be provided with

Microsoft Azure. Designed for professionals in any non-technical or technical role, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Fundamentals level. Focus on the expertise measured by these objectives: Understand cloud concepts Understand core Azure services Understand security, privacy, compliance, and trust Understand Azure pricing and support This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you want to show foundational knowledge of cloud services and their delivery with Microsoft Azure; no technical background or IT experience is required About the Exam Exam AZ-900 focuses on knowledge needed to evaluate cloud service's value; explain IaaS, PaaS, and SaaS; compare public, private, and hybrid cloud models; understand core Azure architectural components, products, and management tools; describe the Azure Marketplace, its usage, and key solutions; understand Azure security, identity services, and monitoring; manage privacy, compliance, and data protection; price subscriptions and manage costs; choose support options; use Service Level Agreements; and understand the Azure service lifecycle. About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified Azure Fundamentals credential, demonstrating that you understand cloud concepts, core Azure Services, Azure pricing and support, and the fundamentals of cloud security, privacy, compliance, and trust. See full details at: www.microsoft.com/learn

Microsoft Azure Essentials - Fundamentals of Azure - Michael Collier 2015-01-29

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

Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

[Hands-On Edge Analytics with Azure IoT](#) - Colin Dow 2020-05-21

Design, secure, and protect the privacy of edge analytics applications using platforms and tools such as Microsoft's Azure IoT Edge, MicroPython, and Open Source Computer Vision (OpenCV) Key Features Become well-versed with best practices for implementing automated analytical computations Discover real-world examples to extend cloud intelligence Develop your skills by understanding edge analytics and applying it to research activities Book Description Edge analytics has gained attention as the IoT model for connected devices rises in popularity. This guide will give you insights into edge analytics as a data analysis model, and help you understand why it's gaining momentum. You'll begin with the key concepts and components used in an edge analytics app. Moving ahead, you'll delve into communication protocols to understand how sensors send their data to computers or microcontrollers. Next, the book will demonstrate how to design modern edge analytics apps that take advantage of the processing power of modern single-board computers and microcontrollers. Later, you'll explore Microsoft Azure IoT Edge, MicroPython, and the OpenCV visual recognition library. As you progress, you'll cover techniques for processing AI functionalities from the server side to the sensory side of IoT. You'll even get hands-on with designing a smart doorbell system using the technologies you've learned. To remove vulnerabilities in the overall edge analytics architecture, you'll discover ways to overcome security and privacy challenges. Finally, you'll use tools to audit and perform real-time monitoring of incoming data and generate alerts for the infrastructure. By the end of this book, you'll have learned how to use edge analytics programming techniques and be able to implement automated analytical computations. What you will learn Discover the key concepts and architectures used with edge analytics Understand how to use long-distance communication protocols for edge analytics Deploy Microsoft Azure IoT Edge to a

Raspberry Pi Create Node-RED dashboards with MQTT and Text to Speech (TTS) Use MicroPython for developing edge analytics apps Explore various machine learning techniques and discover how machine learning is related to edge analytics Use camera and vision recognition algorithms on the sensory side to design an edge analytics app Monitor and audit edge analytics apps Who this book is for If you are a data analyst, data architect, or data scientist who is interested in learning and practicing advanced automated analytical computations, then this book is for you. You will also find this book useful if you're looking to learn edge analytics from scratch. Basic knowledge of data analytics concepts is assumed to get the most out of this book.

Developing Solutions for Microsoft Azure AZ-204 Exam Guide - Paul Ivey 2022-10-19

Build a thorough understanding of the technology, concepts, and development patterns used in building applications in Azure, through detailed explanations, hands-on exercises, and downloadable code samples Key Features Written by two Microsoft technical trainers to help you explore the exam topics in a structured way Understand the "why", and not just "how" behind design and solution decisions Follow along examples with downloadable code samples to help cement each topic's learning objective Book Description With the prevalence of cloud technologies and DevOps ways of working, the industry demands developers who can build cloud solutions and monitor them throughout their life cycle. Becoming a Microsoft-certified Azure developer can differentiate developers from the competition, but with such a plethora of information available, it can be difficult to structure learning in an effective way to obtain certification. Through easy-to-understand explanations and exercises, this book will provide a more palatable learning experience than what you may expect from an exam preparation book. You'll start off with a recap of some important cloud concepts, such as IaaS, PaaS, and SaaS. From there, you'll learn about each relevant solution area, with use cases. The chapters also cover different implementation methodologies, both manual and programmatic - ranging from compute resources such as App Service and serverless applications to storage,

database, security, monitoring solutions, and connecting to third-party services. By the end of this book, you'll have learned everything you need to pass the AZ-204 certification exam and have a handy, on-the-job reference guide. What you will learn Develop Azure compute solutions Discover tips and tricks from Azure experts for interactive learning Use Cosmos DB storage and blob storage for developing solutions Develop secure cloud solutions for Azure Use optimization, monitoring, and troubleshooting for Azure solutions Develop Azure solutions connected to third-party services Who this book is for This book is for Azure developers looking to improve their Azure development knowledge to pass the AZ-204 exam. This book assumes at least one year of professional development experience with Azure, with the ability to program in at least one language supported by Azure. Existing Azure CLI and PowerShell skills will also be useful.

Essentials of Cloud Computing - Chellammal Surianarayanan 2019-08-27

This reader-friendly textbook presents a comprehensive overview of the essential aspects of cloud computing, from the origin of the field to the latest developments. Rather than merely discussing the cloud paradigm in isolation, the text also examines how cloud computing can work collaboratively with other computing models to meet the needs of evolving computing trends. This multi-dimensional approach encompasses the challenges of fulfilling the storage requirements of big data, the use of the cloud as a remote server for Internet of Things and sensor networks, and an investigation of how cloud computing is interlinked with edge, fog and mist computing, among other illuminating perspectives. Topics and features: includes learning objectives, motivating questions, and self-test exercises in every chapter; presents an introduction to the underlying concepts, fundamental features, and key technological foundations of cloud computing; examines how enterprise networking and cloud networking can work together to achieve business goals; reviews the different types of cloud storage available to address the evolution of data and the need for digitization; discusses the challenges and approaches to implementing cloud security, and the hot topic of

cloud management; highlights the value of cloud brokerage capabilities, and explains the importance of cloud orchestration in multi-cloud environments; describes the details of cloud migration, the crucial role of monitoring in optimizing the cloud, and the basics of disaster recovery using cloud infrastructure. This technically rigorous yet simple-to-follow textbook is an ideal resource for graduate courses on cloud computing. Professional software developers and cloud architects will also find the work to be an invaluable reference. *Microsoft Azure Administrator Exam Prep (AZ-104)* - Lalit Rawat 2021-01-02

Step-by-step exam guide to learn Microsoft Azure Administration with hands-on labs. **KEY FEATURES** Well-organized and detailed coverage for passing the Azure Administrator Exam. Gain proficiency in analyzing resource utilization and consumption. Explore how to manage resource groups and establish storage accounts. Expert-led designed and scenario-focused questions and answers. **DESCRIPTION** The Azure administrator is a new way to learn and develop the Microsoft Azure skills, and it helps you to grow your career in the cloud era. In this book, you will learn about the basic and advance concepts of the Azure administration. You will also learn how to use the Azure active directory user management and how to sync your on-premises active directory with the Azure directory. This book also explains concepts like the Azure Virtual machine, Azure storage account, and Azure networking with an exam-based scenario. At the end the book explains Azure monitor, Azure networking, on-premises to Azure connectivity using the site-to-site connection or through EXPRESS ROUTE along with the Disaster and Backup recovery option. This book covers a full chapter of Exam Preparation Guidelines and scenarios-based questions that will help readers in their exam preparations. **WHAT YOU WILL LEARN** Efficient use of Azure components with conceptual-based learning on Azure services. Step-by-step implementation of routine Azure administration tasks. Exciting examples and illustrations on using Azure active directory and other utilities. Smart coverage on Azure virtual machine, Azure storage account, and Azure networking. **WHO THIS BOOK IS FOR** This book is for all system

administration roles or anyone seeking to successfully pass the Azure Administration certification exam and become a true professional Azure Administrator. To make the best of this book, we expect you to be familiar with PowerShell and CLI. **TABLE OF CONTENTS**
1. Implement and manage the hybrid identities
2. Managing Role assignment through the RBAC Policy
3. Azure Subscription and Resources Group Management
4. Managing and Configuration of the Storage Accounts
5. Manage data in the Azure Storage
6. Configure the Azure File
7. Create and configure a VM
8. Automate the deployment of the VMs
9. Create and configure the containers
10. Create and configure the Web Apps
11. Configure the Virtual Networking and Integrate an on-premises to the Azure Network
12. Configure the load balancing
14. Secure access to the virtual networks
15. Monitor and troubleshoot virtual networking
16. Analyze resource utilization and consumption
17. Implement backup and recovery
18. Exam Guidelines and Assessment

Microsoft Azure Fundamentals AZ-900 - Dumps - 5 Practice Exam with Q&A Detailed Explanation - A Guarantee For Your Exam - Paperback - G Nxt 2020-06-07

Microsoft Azure Fundamentals AZ-900 Exam provides learners with an in-depth knowledge of the concepts of Microsoft Azure to effectively perform various tasks in the capacity of an administrator, developer, or database administrator. With Microsoft Azure Fundamentals AZ-900 Exam Candidates can Gain knowledge of the principles of cloud computing, and how these principles have been implemented in Microsoft Azure. Learn how to create the most common Azure services, including Azure virtual machines (VMs), Web Apps, SQL Databases, features of Azure Active Directory (Azure AD) and methods of integrating it with on-premises Active Directory. Candidates will have understanding about Azure Cloud and their different types of services like IaaS, PaaS, SaaS along with it they will be having some understanding of deployment model in Azure Cloud i.e Public cloud, Private Cloud, Community Cloud & Hybrid Cloud. Microsoft is not having doubt on your skill set just they came up with Microsoft Azure Fundamentals AZ-900 for that passionate candidate who willing to have

their career in Cloud Technology. It is foundational level Certification which can introduce you to different certification path in Azure Cloud like for Administrator, Developer or Architect. It will be totally depend on candidate how they want to make their career in Azure Cloud Technology after having AZ-900 Certifications. This is the list of the contents in our Microsoft Azure Fundamentals AZ-900 Practice Test: - Describe cloud computing, Azure, and Azure subscriptions- Describe and create Azure Web Apps- Create and configure VMs in Microsoft Azure- Create an Azure virtual network- Describe Azure storage- Describe and deploy databases in Azure- Describe Azure AD

Microsoft Azure Fundamentals AZ-900 Dumps will include below mentioned topics with Exam focused percentage- Understand Cloud Concepts: 15-20%- Understand Core Azure Services: 30-35%- Understand Security, Privacy, Compliance, and Trust: 25-30%- Understand Azure Pricing and Support: 25-30

Microsoft Azure Essentials - AMC College 2022-11-01

Azure is a cloud computing platform and an online portal that allows you to access and manage cloud services and resources provided by Microsoft. The Azure cloud platform is more than 200 products and cloud services designed to help you bring new solutions to life—to solve today's challenges and create the future. Build, run, and manage applications across multiple clouds, on-premises, and at the edge, with the tools and frameworks of your choice.

Exam Ref Az-900 Microsoft Azure Fundamentals with Practice Test - Jim Cheshire 2020-08-15

Prepare for Microsoft Exam AZ-900—and help demonstrate your real-world mastery of cloud services and how they can be provided with Microsoft Azure. Designed for professionals in any non-technical or technical role, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Fundamentals level. Focus on the expertise measured by these objectives: Understand cloud concepts Understand core Azure services Understand security, privacy, compliance, and trust Understand Azure pricing and support This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you

Assumes you want to show foundational knowledge of cloud services and their delivery with Microsoft Azure; no technical background or IT experience is required About the Exam Exam AZ-900 focuses on knowledge needed to evaluate cloud service's value; explain IaaS, PaaS, and SaaS; compare public, private, and hybrid cloud models; understand core Azure architectural components, products, and management tools; describe the Azure Marketplace, its usage, and key solutions; understand Azure security, identity services, and monitoring; manage privacy, compliance, and data protection; price subscriptions and manage costs; choose support options; use Service Level Agreements; and understand the Azure service lifecycle. About Microsoft Certification Passing this exam fulfills your requirements for the Microsoft Certified Azure Fundamentals credential, demonstrating that you understand cloud concepts, core Azure Services, Azure pricing and support, and the fundamentals of cloud security, privacy, compliance, and trust. See full details at: www.microsoft.com/learn/CloudEssentials - Susan L. Cook 2013-05-02

CompTIA-Authorized courseware for the Cloud Essentials Exam (CLO-001) What better way to get up to speed on cloud computing than with this new book in the popular Sybex Essentials series? Cloud Essentials covers the basics of cloud computing and its place in the modern enterprise. Explore public and private clouds; contrast the "as a service" models for PaaS, SaaS, IaaS, or XaaS platforms; plan security; and more. In addition, the book covers the exam objectives for the both the CompTIA Cloud Essentials (Exam CLO-001) exam and the EXIN Cloud Computing Foundation (EX0-116) certification exams and includes suggested exercises and review questions to reinforce your learning. Gets you up to speed on the hottest trend in IT--cloud computing Prepares IT professionals and those new to the cloud for and cover all of the CompTIA Cloud Essentials and EXIN Cloud Computing Foundation exam objectives Serves as CompTIA Authorized courseware for the exam Examines various models for cloud computing implementation, including public and private clouds Contrasts "as a service" models for platform (PaaS), software (SaaS), infrastructure (IaaS), and other

technologies (XaaS) Identifies strategies for implementation on tight budgets and goes into planning security and service management Get a through grounding in cloud basics and prepare for your cloud certification exam with Cloud Essentials.

Introducing Windows Azure for IT

Professionals - Mitch Tulloch 2013-11-15

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

[Cloud Computing Fundamentals](#) - A. B. Lawal 2020-05-15

Did you know that cloud computing is being used by just about every person or company on the internet today in some shape or form? Most people use the cloud and never even think about it. I've been writing, teaching and speaking about cloud computing since the time it was simply called "the cloud". In this book, you're going to learn how the cloud works, how it can help you, your team or organization, and the different types of cloud computing. In chapters 4 and 5, you're going to get a hands-on experience from my examples and learn real-world applications of cloud computing. In chapter 5 I'll show you: How to create and use a Microsoft Azure subscription to get \$200 credit and 12 months of 25 free services. How to create a

Windows virtual machine (VM). How to create a Linux virtual machine. When you read my book, you will understand different phrases and acronyms, such as: Software as a service Infrastructure as a service Platform as a service Virtualization Multitenancy and so much more! We'll also talk about: Public clouds Private clouds Hybrid clouds Multi-clouds Finally, we will look at the risks of cloud computing, cover the current marketplace and see a lot of the different companies offering cloud services. You will discover how to recognize and understand what it is these companies actually provide.

Learn Microsoft Azure - Mohamed Wali 2018-12-26

Explore various Azure services to build solutions that leverage effective design patterns Key Features Create, deploy, and host cloud applications on Azure Understand various Azure services that help you host serverless applications Explore practical examples to help you secure and troubleshoot your cloud environment Book Description Azure is one of the leading public cloud service providers. Thanks to a number of Azure service updates, it continues to make advances in the realm of cloud computing. Learn Microsoft Azure starts with the fundamentals of cloud computing. You will learn to configure and set up the Azure infrastructure. As you make your way through the book, you'll explore Azure services, along with working on virtual memory systems (VMS) and deployment models. You will understand various services in the Azure ecosystem, such as Azure IoT and Azure Analytics, among others. An easy-to-follow introduction to various cloud design patterns will also add to your efficiency in designing cloud solutions. In the concluding chapters, you'll secure your virtual networks using Network security groups and configure Azure Active Directory (Azure AD) to set a custom domain name and company profile. By the end of this book, you will have learned to secure and troubleshoot your Azure cloud environment and be fully aware of best practices for Azure cloud administration. What you will learn Understand the cloud services offered by Azure Design storage and networks in Azure for your Azure VM Work with web apps and Azure SQL databases Build your identity management solutions on Azure using Azure AD Monitor,

protect, and automate your Azure services using Operation Management Suite (OMS) Implement OMS for Azure services Who this book is for Learn Microsoft Azure is for administrators, cloud engineers, and developers who want to get started with using Azure as their cloud platform and build cloud-based applications for their enterprises.

Practical Microsoft Azure IaaS - Shijimol Ambi Karthikeyan 2018-07-20

Adopt Azure IaaS and migrate your on-premise infrastructure partially or fully to Azure. This book provides practical solutions by following Microsoft's design and best practice guidelines for building highly available, scalable, and secure solution stacks using Microsoft Azure IaaS. The author starts by giving an overview of Azure IaaS and its components: you'll see the new aspects of Azure Resource Manager, storage in IaaS, and Azure networking. As such, you'll cover design considerations for migration and implementation of infrastructure services, giving you practical skills to apply to your own projects. The next part of the book takes you through the different components of Azure IaaS that need to be included in a resilient architecture and how to set up a highly available infrastructure in Azure. The author focuses on the tools available for Azure IaaS automated provisioning and the different performance monitoring and fine-tuning options available for the platform. Finally, you'll gain practical skills in Azure security and implementing Azure architectures. After reading Practical Microsoft Azure IaaS, you will have learned how to map the familiar on-premise architecture components to their cloud infrastructure counterparts. This book provides a focused and practical approach to designing solutions to be hosted in Azure IaaS. What You Will Learn Map the key Azure components to familiar concepts in infrastructure, such as virtualization, storage provisioning, switching, and firewalls Implement Azure IaaS deployment architectures Design IaaS environments in line with the Microsoft recommended best practices for scalability, resiliency, availability, performance, and security Manage the operational aspects of hosted environments, leverage automation, and fine tune for optimal performance Who This Book Is For Infrastructure and solution

architects with skills in on-premise infrastructure design who want to up-skill in Azure IaaS.

Microsoft Certified Azure Fundamentals Study Guide - James Boyce 2021-05-11

Quickly preps technical and non-technical readers to pass the Microsoft AZ-900 certification exam Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is your complete resource for preparing for the AZ-900 exam. Microsoft Azure is a major component of Microsoft's cloud computing model, enabling organizations to host their applications and related services in Microsoft's data centers, eliminating the need for those organizations to purchase and manage their own computer hardware. In addition, serverless computing enables organizations to quickly and easily deploy data services without the need for servers, operating systems, and supporting systems. This book is targeted at anyone who is seeking AZ-900 certification or simply wants to understand the fundamentals of Microsoft Azure. Whatever your role in business or education, you will benefit from an understanding of Microsoft Azure fundamentals. Readers will also get one year of FREE access to Sybex's superior online interactive learning environment and test bank, including hundreds of questions, a practice exam, electronic flashcards, and a glossary of key terms. This book will help you master the following topics covered in the AZ-900 certification exam: Cloud concepts Cloud types (Public, Private, Hybrid) Azure service types (IaaS, SaaS, PaaS) Core Azure services Security, compliance, privacy, and trust Azure pricing levels Legacy and modern lifecycles Growth in the cloud market continues to be very strong, and Microsoft is poised to see rapid and sustained growth in its cloud share. Written by a long-time Microsoft insider who helps customers move their workloads to and manage them in Azure on a daily basis, this book will help you break into the growing Azure space to take advantage of cloud technologies.

Fundamentals of AWS GCP Azure Cloud Technology - Sheikh Muhammad Ibraheem 2022-04-04

This book is all about cloud computation. The knowledge in this book is comprehensible to everyone. The book is divided in to five chapters

and each chapter contains a specific knowledge on cloud computation Chapter 1: Introduction to Cloud Computation Chapter 2: Microsoft Azure Chapter 3: Amazon Web Services Chapter 4: Amazon Programming Chapter 5: Google Cloud Platform. After reading this book the reader will be able to explain the cloud computation, difference between the cloud computation, Google, Microsoft and Amazon cloud platform. At the end of this book some abbreviations and general definitions are given

Essentials of Cloud Computing - K.

Chandrasekaran 2014-12-05

Cloud computing—accessing computing resources over the Internet—is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders—businesses, the IT industry, application developers, researchers, and students. To successfully embrace this new computing model, these stakeholders need to acquire new cloud computing skills and knowledge. This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing. Presented in an easy-to-understand style, *Essentials of Cloud Computing* begins with an introduction to basic cloud computing concepts. It then covers cloud computing architecture, deployment models, programming models, and cloud service types, such as Software as a Service (SaaS) and Infrastructure as a Service (IaaS). It also discusses the cloud's

networking aspects, major service providers, open source support, and security issues. The book concludes with a discussion of several advanced topics, such as mobile clouds, media clouds, and green clouds. This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing. It includes many case studies, programming examples, and industry-based applications. Each chapter concludes with review questions that help readers check their understanding of the presented topics.

Essentials of Cloud Computing will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds.

Mastering Azure Analytics - Zoiner Tejada
2017-04-06

Helps users understand the breadth of Azure services by organizing them into a reference framework they can use when crafting their own big-data analytics solution.

Microsoft Azure Essentials Azure Web Apps for Developers - Rick Rainey 2015-06-25

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