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# Learning Microsoft Azure

Cloud Computing  
and Development  
Fundamentals



Jonah Carrio Andersson  
Foreword by Thomas Maurer  
& Magnus Mårtensson

# Learning Microsoft Azure

**Jack A. Hyman**



## **Learning Microsoft Azure:**

**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

**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

**Learn Azure in a Month of Lunches** Iain Foulds, 2020-06-21 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

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*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

Learning Microsoft Azure Storage Mohamed Waly, 2017-11-15 A step by step guide to get you up and running with Azure Storage services and helps you build solutions that leverage effective design patterns About This Book Discover best practices for designing and implementing Azure Storage for Azure VMs and highly available apps Effectively plan design and implement SQL databases with Azure Protect your data with Azure Backup and Azure Site Recovery Who This Book Is For This book is targeted at Developers IT Professionals and even Database Admins who have experience of working on Microsoft Azure and want to make the most of Azure Storage services Some knowledge of SQL Server will be beneficial What You Will Learn Understand Azure Storage types and determine the appropriate one for your needs Design Azure Storage for Azure VMs according to best practices Design and implement your SQL Database on Azure according to best practices Learn how to work with Azure Backup Learn how to work with Azure Site Recovery Extend Azure Storage to StorSimple Monitor storage metrics and logs and customize the Azure monitoring dashboard Monitor and troubleshoot Azure Storage In Detail Microsoft Azure Storage is the bedrock of Microsoft s core storage solution offering in

Azure No matter what solution you are building for the cloud you ll find a compelling use for Azure Storage This book will help you get up to speed quickly on Microsoft Azure Storage by teaching you how to use the different storage services You will be able to leverage secure design patterns based on real world scenarios and develop a strong storage foundation for Azure virtual machines You will start this book with an introduction to Microsoft Azure storage and how it can be used to build large scale real world applications using Azure storage services such as blob table queue and file This book will also teach you about the different types of Azure Storage You will then find out the best practices for designing your Azure VM storage whether it is Windows based or Linux based and how to migrate your storage in different scenarios You will learn also how to plan and implement your SQL database solution on Azure and how to build your SQL database in different service models IaaS PaaS Moreover you will also learn best practices for dealing with Azure Backup the role of Azure Site Recovery and the solutions they offer in different scenarios Finally you will use StorSimple to unlock the maximum value from all of your data and some tools that will help you manage your storage on and off premise Azure such as AzCopy and Storage Explorer Monitoring your storage in no laughing matter so you will learn to monitor diagnose and troubleshoot it Style and approach This book will provide an in depth insight into properly designing your environment and saving money on your running workloads Using cutting edge examples you will be able to efficiently monitor diagnose and troubleshoot Azure Storage

**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

*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 DescriptionThis 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

**Azure** Kennan Bismar,2018-06-04

Quickstart guide for Microsoft Azure Microsoft Azure is an incredibly versatile and powerful cloud service but only if you know how to use it Need 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 **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 Microsoft Azure For Dummies Jack A. Hyman, 2022-12-01 The must have reference for Azure newcomers As Microsoft's Azure platform takes a larger stake in the cloud computing world more tech pros need to know the ins and outs of this fast growing platform Microsoft Azure For Dummies is the essential guide for users who are new to the platform Take your first steps into the world of Azure as you learn all about the core services straight from a Microsoft expert This book covers the Azure essentials you need to know including building a virtual network on Azure launching and scaling applications migrating existing services and keeping everything secure In classic Dummies style you'll learn the fundamentals of Azure's core services and when you're ready how to move into more advanced services Discover the basics of cloud computing with Microsoft Azure and learn what services you can access with Azure Build your cloud network with Azure and migrate an existing network to the platform Scale applications seamlessly

and make sure your security is air tight Updated to included expanded information on data resources machine learning artificial intelligence and collaboration Microsoft Azure For Dummies 2nd Edition answers the call for an entry level comprehensive guide that provides a simple to understand primer on core Azure services It s an invaluable resource for IT managers and others arriving at the platform for the first time      *Microsoft Azure Fundamentals Certification and Beyond* Steve Miles,2024-01-25 Advance your career by learning how to apply Azure Fundamentals effectively with this comprehensive guide accompanied by web based tools such as mock exams flashcards and hands on activities Key Features Comprehensive guide to Azure fundamentals covering core compute network and storage services in detail In depth explanations of security governance and administrative tools essential for managing Azure environments effectively Access to mobile friendly website with practice exams interactive flashcards and real time assessments to reinforce learning anytime anywhere Book DescriptionMicrosoft Azure Fundamentals Certification and Beyond Second Edition combines the comprehensive cloud fundamentals book with Packt s powerful exam training platform offering a holistic learning experience designed to help you not just ace the AZ 900 exam but also apply that knowledge to excel in your career Covering essential topics such as cloud computing principles Azure architecture services management and governance this guide offers clear explanations and real world insights to help you build confidence in working with Microsoft Azure It also includes access to an interactive online training platform which features practice exams exam like timers interactive flashcards and detailed explanations to reinforce learning and assess exam readiness By engaging with the concepts in this book and the accompanying online resources you will gain a solid foundation in Azure fundamentals enabling you to approach the AZ 900 certification exam with confidence and take the next step in your cloud computing journey What you will learn Core cloud computing concepts and how they apply to Azure Azure s key services deployment methods and management tools Implementation of security concepts identity management and governance features Resource deployment monitoring and compliance best practices Skills to manage and optimize Azure environments effectively Who this book is for This book is for individuals preparing for the Microsoft Azure Fundamentals AZ 900 certification exam and those looking to build a strong foundation in cloud computing with Azure It is suitable for IT professionals students and business users seeking to understand Azure services architecture and management No prior cloud experience is required making it ideal for beginners while those with some technical background can use it to reinforce their knowledge and prepare for certification

**Learning Microsoft Azure** Peter De Tender,2017 Azure is a computing and services platform hosted in data centers that is managed or supported by Microsoft It includes many features with corresponding services that can be used individually or together This comprehensive tutorial will get you well versed with the fundamental services of Azure and how you can leverage these services for your organization You will start with a brief introduction to cloud computing with Azure and then dive into the fundamental steps such as exploring the Azure portal and managing the Azure platform You will learn



to implement the Azure Virtual Machine and work with Resource Manager After that you will explore the Azure SQL Server Database followed by seeing how to deploy configure and manage Azure Web Apps that connect you to the cloud You will learn to use Azure PaaS Machine Learning and Database Solutions as well as monitoring and diagnosing Azure insights before finally diving into disaster recovery Resource description page      **Learn Microsoft Azure for Beginners** Henry Stromm,2020-06-12 Microsoft Azure is the fastest growing cloud platform in the world This book is designed to help you to build strong foundation in Microsoft Azure No prior Azure experience required This course has been designed with an architectural approach So start taking this course and put yourself in high demand in the world of IT and command higher salary Who this course is for Students who are willing to learn Azure from ground zeroStudents who would like to make a career switch to Microsoft Azure cloudEnterprise architects Solution architects IT developersSystem network storage application administrators      Azure William Hazelberg,2020-04-04 Azure Invent with purpose Turn ideas into solutions with more than 100 services to build deploy and manage applications in the cloud on premises and at the edge using the tools and frameworks of your choice      *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      *Cloud-Native Applications on Microsoft Azure* Hrushikesh Deshmukh,Rajesh Kumar Malviya,Novman Mohammed,2025-11-17 DESCRIPTION Cloud native technologies are at the core of enterprise transformation enabling applications that are scalable resilient and intelligent Microsoft Azure offers a comprehensive platform to architect automate and future proof these next generation systems This

book provides a step by step journey through cloud native design on Azure starting with the fundamentals and addressing real world challenges You will explore the differences between cloud native and microservices learn how to leverage Azure s native capabilities and design robust architectures that incorporate networking data management and API driven patterns Hands on chapters guide you through CI CD pipelines observability governance and security using tools such as Azure DevOps Terraform Azure Monitor and Key Vault This book also discusses AI and ML integration with Azure Machine Learning Cognitive Services and OpenAI while gaining insights into future trends like edge computing 5G and service mesh It concludes with five in depth case studies across industries such as retail media logistics e commerce and healthcare demonstrating how cloud native principles translate into practical high impact solutions By the end of this book you will be equipped to design build secure and manage enterprise scale cloud native applications on Microsoft Azure From addressing challenges to applying best practices from automation to observability and from security to AI driven innovation this book takes you step by step through the entire lifecycle

WHAT YOU WILL LEARN Understand cloud native foundations and the challenges organizations face when transitioning Design end to end cloud native architectures using modular resilient and scalable patterns Implement secure and performant networking with VNets Load Balancers and service mesh Manage distributed data with Cosmos DB Azure SQL and advanced data strategies Implement observability using Azure Monitor Application Insights and OpenTelemetry Automate CI CD and infrastructure with Azure DevOps GitOps Terraform and ARM templates

WHO THIS BOOK IS FOR This book is designed for cloud architects and DevOps engineers seeking mastery of Azure native design Software developers building or modernizing applications with cloud native principles It is also valuable for IT professionals and platform engineers tasked with automation security and scaling and technology leaders and enterprise architects aiming to modernize operations and drive transformation

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*The Complete AZ-900 Handbook* Tom Taulli, 2025-10-24

DESCRIPTION Cloud computing is changing the way businesses operate making it easier for them to launch new services and expand rapidly Due to this major shift there is a growing need for professionals who understand how to work with these technologies This is mainly for Azure which continues to be one of the biggest cloud platforms worldwide In the United States for example Azure cloud architects earn an average salary of over 133 000 a year This book is your practical handbook to passing the AZ 900 certification exam You will gain a solid understanding of core cloud concepts along with Azure s architecture global infrastructure and its key services You will also

learn about compute networking and storage resources as well as important management and security frameworks like Zero Trust Then there is coverage of important topics like governance compliance and cost management Each chapter is written in clear straightforward language and includes real world examples to make the concepts easier to understand and apply To help you study effectively you will also find sample questions to reinforce what you have learned By the end of the book you will feel confident in your knowledge and ready to pass the AZ 900 exam

**WHAT YOU WILL LEARN** Learn how cloud computing works why it matters and the core ideas behind Azure Find your way around the Azure portal and keep subscriptions organized Create virtual machines from scratch and manage computing resources Understand the basics of Azure networking and learn how its main services fit together Learn about the various Azure storage options including their tiers and backup setups Build confidence in managing identities controlling access and keeping systems secure Figure out practical ways to handle costs and put governance policies into action on Azure

**WHO THIS BOOK IS FOR** The target audience is broad for the AZ 900 exam It includes IT professionals business analysts project managers sales professionals and students The exam is ideal for anyone looking to start a new career improve cloud computing skills or understand AWS services

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**Mastering Azure Machine Learning** Christoph Körner, Kaijisse Waaijer, 2020-04-30 Master expert techniques for building automated and highly scalable end to end machine learning models and pipelines in Azure using TensorFlow Spark and Kubernetes

**Key Features** Make sense of data on the cloud by implementing advanced analytics Train and optimize advanced deep learning models efficiently on Spark using Azure Databricks Deploy machine learning models for batch and real time scoring with Azure Kubernetes Service AKS

**Book Description** The increase being seen in data volume today requires distributed systems powerful algorithms and scalable cloud infrastructure to compute insights and train and deploy machine learning ML models This book will help you improve your knowledge of building ML models using Azure and end to end ML pipelines on the cloud The book starts with an overview of an end to end ML project and a guide on how to choose the right Azure service for different ML tasks It then focuses on Azure Machine Learning and takes you through the process of data experimentation data preparation and feature engineering using Azure Machine Learning and Python You ll learn advanced feature extraction techniques using natural language processing NLP classical ML techniques and the secrets of both a great recommendation engine and a performant computer vision model using deep learning methods You ll also explore how to train optimize and tune models using Azure Automated Machine Learning and HyperDrive and perform distributed training on Azure Then you ll learn different deployment and monitoring techniques using Azure Kubernetes Services with Azure Machine Learning along with the basics

of MLOps DevOps for ML to automate your ML process as CI CD pipeline By the end of this book you ll have mastered Azure Machine Learning and be able to confidently design build and operate scalable ML pipelines in Azure What you will learn Setup your Azure Machine Learning workspace for data experimentation and visualization Perform ETL data preparation and feature extraction using Azure best practices Implement advanced feature extraction using NLP and word embeddings Train gradient boosted tree ensembles recommendation engines and deep neural networks on Azure Machine Learning Use hyperparameter tuning and Azure Automated Machine Learning to optimize your ML models Employ distributed ML on GPU clusters using Horovod in Azure Machine Learning Deploy operate and manage your ML models at scale Automated your end to end ML process as CI CD pipelines for MLOps Who this book is for This machine learning book is for data professionals data analysts data engineers data scientists or machine learning developers who want to master scalable cloud based machine learning architectures in Azure This book will help you use advanced Azure services to build intelligent machine learning applications A basic understanding of Python and working knowledge of machine learning are mandatory

*Azure Cloud Projects* Hamid Sadeghpour Saleh, 2025-05-21 Learn Microsoft Azure from the ground up master the fundamentals build simple cloud applications and gain real world experience with each project Key Features Understand the core concepts of Azure including its architecture and primary services Learn to build full fledged Azure projects from web apps to containerized solutions Start with Azure basics and move to advanced topics like DevOps security and cost optimization Purchase of the print or Kindle book includes a free PDF eBook Book Description Want to get hands on with Azure and boost your cloud solution skills by working on real world projects Azure Cloud Projects is your go to resource Written by a seasoned Microsoft Cloud Technologies Architect renowned for his expertise in crafting innovative solutions this hands on guide will empower you to build real world applications using Microsoft Azure Through hands on projects you ll explore core cloud concepts and gain the experience needed to confidently launch your cloud career The chapters help you build a strong foundation in cloud computing and Azure services including how to set up your Azure account and navigate the portal You ll learn how to develop increasingly complex solutions as you progress from configuring networks and deploying web apps to managing databases and containers Advancing through the chapters you ll learn how to implement identity and access controls with Entra ID automate workflows using Azure Functions build a CI CD pipeline with Azure DevOps and optimize cloud costs for scalable growth By the end of this book you ll have a solid grasp of Azure s capabilities and a portfolio of practical projects that showcase your job ready skills and set you up for success in entry level cloud roles What you will learn Set up Azure and explore cloud fundamentals Implement Entra ID and hybrid identity solutions Build and secure storage with Azure Blob Storage Design virtual networks and configure VPN gateways Deploy your first web app using Azure App Service Automate workflows with Azure Functions Create CI CD pipelines with Azure DevOps Who this book is for If you re new to cloud computing and want to build a solid foundation in Microsoft Azure this book is for you Ideal for

aspiring cloud engineers junior developers IT support staff and tech enthusiasts it offers simple step by step guidance to help you learn by doing No prior Azure experience is needed just a basic understanding of cloud concepts and familiarity with programming

**Artificial Intelligence for Business Analytics** Felix Weber, 2023-03-01 While methods of artificial intelligence AI were until a few years ago exclusively a topic of scientific discussions today they are increasingly finding their way into products of everyday life At the same time the amount of data produced and available is growing due to increasing digitalization the integration of digital measurement and control systems and automatic exchange between devices Internet of Things In the future the use of business intelligence BI and a look into the past will no longer be sufficient for most companies Instead business analytics i e predictive and predictive analyses and automated decisions will be needed to stay competitive in the future The use of growing amounts of data is a significant challenge and one of the most important areas of data analysis is represented by artificial intelligence methods This book provides a concise introduction to the essential aspects of using artificial intelligence methods for business analytics presents machine learning and the most important algorithms in a comprehensible form using the business analytics technology framework and shows application scenarios from various industries In addition it provides the Business Analytics Model for Artificial Intelligence a reference procedure model for structuring BA and AI projects in the company This book is a translation of the original German 1st edition Künstliche Intelligenz für Business Analytics by Felix Weber published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2020 The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

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### **Learning Microsoft Azure Introduction**

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