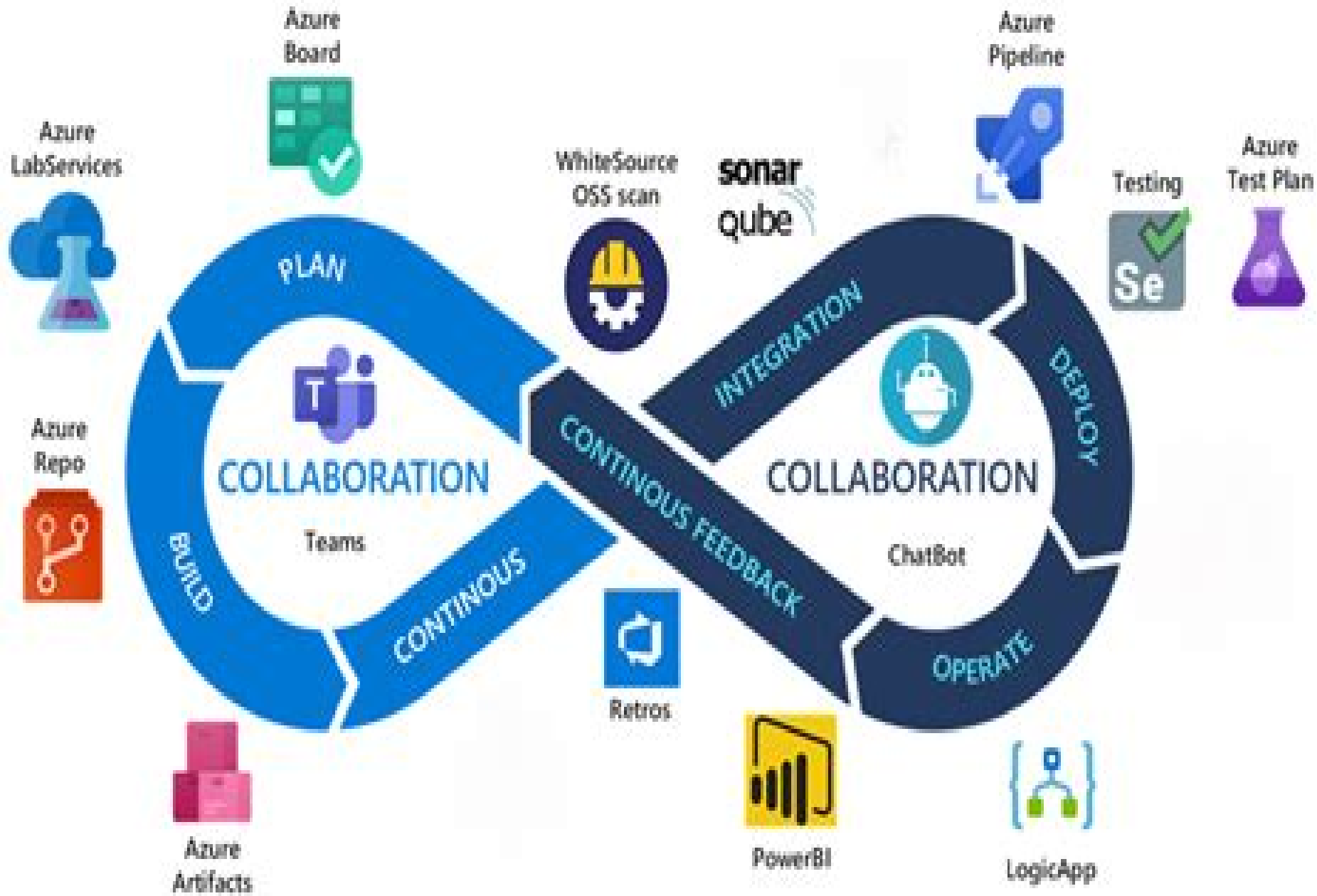




Devops On The Microsoft Stack

Geoff Hiten



Devops On The Microsoft Stack:

DevOps on the Microsoft Stack Wouter de Kort, 2016-04-29 This book tells you everything you need to know to help your organization implement DevOps on the Microsoft platform You will learn how to use Visual Studio Visual Studio Team Services and Azure to implement a complete DevOps process in your company You will learn about Agile Project Management Continuous Integration Continuous Delivery Technical Debt Management Automatic Testing and Monitoring and see how all these areas fit together DevOps is important for organizations that want to make the best use of their resources and avoid costly mistakes Teams that embrace DevOps deploy code up to 30 times more frequently than their competition and less than 50% of their deployments fail according to Puppet Labs State of DevOps survey DevOps on the Microsoft Stack shows you how to help your organization implement DevOps covering the tooling they will need and how to make everything work together while following best practices The focus is not only on technology but also on the cultural issues that teams will face when implementing DevOps The author's goal is to not only show you which tooling there is but help you to successfully use everything together to implement DevOps in your projects and organization In this book you will learn What DevOps is and how it can help development teams How to use Visual Studio Visual Studio Team Services and Azure to setup a DevOps process How to introduce DevOps to your organization and how to overcome problems

Microsoft Hybrid Cloud Unleashed with Azure Stack and Azure Kerrie Meyler, Steve Buchanan, Mark Scholman, Jakob Gottlieb Svendsen, Janaka Rangama, 2017-11-21 Microsoft Hybrid Cloud Unleashed brings together comprehensive and practical insights into hybrid cloud technologies complete CloudOps and DevOps implementation strategies and detailed guidance for deploying Microsoft Azure Stack in your environment Written by five Microsoft Cloud and Datacenter Management MVPs this book is built on real world scenarios and the authors extraordinary hands on experiences as early adopters Step by step the authors help you integrate your optimal mix of private and public cloud with a unified management experience that lets you move workloads at will achieving unprecedented flexibility The authors also guide you through all aspects of building your own secure high performance hybrid cloud infrastructure You will discover how Azure Stack enables you to run data centers with the same scalability redundancy and reliability as Microsoft's Azure data centers how to integrate Azure infrastructure and platform services with internal operations and how to manage crucial external dependencies The book concludes with a deep dive into automating and customizing Azure Stack for maximum reliability productivity and cost savings Detailed information on how to Run a private hybrid cloud on your hardware in your data center using APIs and code identical to public Azure Apply ITIL and DevOps lifecycles to your hybrid cloud implementation Gain a deep understanding of Azure Stack architecture components and internals Install and configure Azure Stack and master the Azure Stack Portal Integrate and utilize infrastructure core and custom resource providers Effectively provision secure and manage tenants Manage monitor troubleshoot and back up Azure Stack with CloudOps Automate

resource provisioning with PowerShell the Azure CLI templates and Azure Stack's API Write your own Azure Resource Manager templates Centrally automate cloud management and complex tasks connected to external systems Develop customized production ready Azure Stack marketplace items **WinOps** Jonathon Lee Wright,2018 *Xamarin Continuous Integration and Delivery* Gerald Versluis,2017-05-09 Learn everything you need to set up a full featured automated pipeline for Xamarin development and deployment Automate everything from the build step through to deployment and delivery to your customer If you thought this level of automation could be achieved only by large companies with generous funding think again You as a single developer or working in a small team or company can automate your processes to punch heavier than your weight What's more you can achieve this level of automation completely for free This hands on guide takes you step by step from setting up your first automated build all the way to integrated unit testing and finally through to delivering a high quality app to your testers and end users The automation presented in this book saves a lot of frustration and recurring work providing you more time to focus on building the robust and compelling apps that delight your customers and keep you steps ahead of the competition Not only does this book teach how to get a grip on consistent quality but it covers the use of HockeyApp to track events and usage and to report errors and anomalies back to home base for developers to investigate Many times it's possible to detect and fix errors before a user even notices they are there This book Teaches the necessity of an automated development pipeline Helps you set up an automated pipeline for Xamarin development Integrates testing on physical devices to ensure high quality apps What You'll Learn Why you want an automated development pipeline Obtain and configure the automated tooling Continuously integrate your apps Run automated unit tests Push updates to your customers Monitor and detect errors without user intervention Who This Book Is For App developers looking for ways to ensure consistent quality of work and wanting to know how their apps are doing in actual use by customers **Systems, Software and Services Process Improvement** Alastair Walker,Rory V. O'Connor,Richard Messnarz,2019-09-09 This volume constitutes the refereed proceedings of the 26th European Conference on Systems Software and Services Process Improvement EuroSPI conference held in Edinburgh Scotland in September 2019 The 18 revised full papers presented were carefully reviewed and selected from 28 submissions They are organized in topical sections Visionary Papers SPI and Safety and Security SPI and Assessments SPI and Future Qualification Team Performance and SPI Manifesto and Culture The selected workshop papers are also presented and organized in following topical sections GamifySPI Digitalisation of Industry Infrastructure and E Mobility Best Practices in Implementing Traceability Good and Bad Practices in Improvement Functional Safety and Cybersecurity Experiences with Agile and Lean Standards and Assessment Models Team Skills and Diversity Strategies Recent Innovations *Machine Learning for Decision Makers* Patanjali Kashyap,2018-01-04 Take a deep dive into the concepts of machine learning as they apply to contemporary business and management You will learn how machine learning techniques are used to solve fundamental and complex problems in society and industry Machine Learning

for Decision Makers serves as an excellent resource for establishing the relationship of machine learning with IoT big data and cognitive and cloud computing to give you an overview of how these modern areas of computing relate to each other This book introduces a collection of the most important concepts of machine learning and sets them in context with other vital technologies that decision makers need to know about These concepts span the process from envisioning the problem to applying machine learning techniques to your particular situation This discussion also provides an insight to help deploy the results to improve decision making The book uses case studies and jargon busting to help you grasp the theory of machine learning quickly You will soon gain the big picture of machine learning and how it fits with other cutting edge IT services This knowledge will give you confidence in your decisions for the future of your business What You Will Learn Discover the machine learning big data and cloud and cognitive computing technology stack Gain insights into machine learning concepts and practices Understand business and enterprise decision making using machine learning Absorb machine learning best practices Who This Book Is For Managers tasked with making key decisions who want to learn how and when machine learning and related technologies can help them

Azure Strategy and Implementation Guide Jack Lee, Greg Leonardo, Jason Milgram, Dave Rendón, 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 **Software Project Management for Distributed Computing** Zaigham

Mahmood, 2017-04-04 This unique volume explores cutting edge management approaches to developing complex software that is efficient scalable sustainable and suitable for distributed environments Practical insights are offered by an international selection of pre eminent authorities including case studies best practices and balanced corporate analyses Emphasis is placed on the use of the latest software technologies and frameworks for life cycle methods including the design implementation and testing stages of software development Topics and features Reviews approaches for reusability cost and time estimation and for functional size measurement of distributed software applications Discusses the core characteristics of a large scale defense system and the design of software project management SPM as a service Introduces the 3PR framework research on crowdsourcing software development and an innovative approach to modeling large scale multi agent software systems Examines a system architecture for ambient assisted living and an approach to cloud migration and management assessment Describes a software error proneness mechanism a novel Scrum process for use in the defense domain and an ontology annotation for SPM in distributed environments Investigates the benefits of agile project management for higher education institutions and SPM that combines software and data engineering This important text reference is essential reading for project managers and software engineers involved in developing software for distributed computing environments Students and researchers interested in SPM technologies and frameworks will also find the work to be an invaluable resource Prof Zaigham Mahmood is a Senior Technology Consultant at Debesis Education UK and an Associate Lecturer Research at the University of Derby UK He also holds positions as Foreign Professor at NUST and IIU in Islamabad Pakistan and Professor Extraordinaire at the North West University Potchefstroom South Africa Mastering

Microsoft Fabric: Unified Data Engineering, Governance, and Artificial Intelligence in the Cloud Sibaram Prasad Panda, 2025-07-12 The development of cloud platforms has changed how organizations manage data implement governance and incorporate artificial intelligence into business processes Microsoft Fabric combines data engineering governance real time analytics and AI into a single scalable ecosystem This book Mastering Microsoft Fabric Unified Data Engineering Governance and AI in the Cloud is designed for professionals researchers and architects interested in Microsoft Fabric It covers real world use cases architectural patterns and practical implementations this guide explores how to build modern governed and intelligent data systems that meet the demands of today s dynamic digital environments Drawing on extensive experience in databases cybersecurity and AI I have written this book to address the divide between theoretical concept and practical implementation This work focuses on role and rule based access control multi tenant data governance AI integration and secure data pipelines all critical pillars in modern enterprise architecture This book functions as both a technical guide and a strategic reference outlining how Microsoft Fabric is influencing cloud native data engineering and

decision making It aims to inform readers about compliance focused architectures and servers as a resource for professionals working within cloud first and AI driven environments

Introducing Disaster Recovery with Microsoft Azure Bapi Chakraborty, Yashajeet Chowdhury, 2020-06-23 Explore and learn the key building blocks of Microsoft Azure services and tools for implementing a disaster recovery solution of any on premises or cloud based application In this book you will go through various aspects of planning designing and configuring a robust recovery solution on Azure Introducing Disaster Recovery with Microsoft Azure starts by explaining the disaster recovery landscape and how Azure disaster recovery is different from the traditional approach You will learn how to leverage Azure site recovery and various Azure based services to design and implement a recovery solution and much more Moving forward you will design and implement various scenarios such as on premises to Azure Azure to Azure and on premises to on premises disaster recovery You will also learn common considerations and technicalities of implementing recovery solutions for various multi tier monolithic and modern micro services enterprise applications Finally you will go through real life examples scenarios and exercises After reading this book you will be able to design and implement disaster recovery on Azure in different scenarios You will also look at a few real world scenarios that will provide more practical insights What You Will Learn Discover the fundamental building blocks of disaster recovery on Azure Examine various application specific considerations for disaster recovery Leverage various PaaS capabilities to achieve maximum benefit Design and implement a multi regional Azure to Azure disaster recovery plan Who This Book Is For Consultants architects and Azure administrators

Azure Stack Hub Demystified Richard Young, 2021-10-07 Deploy configure administer and run Microsoft Azure Stack Hub Key Features Understand the topics required for the Microsoft Azure AZ 600 exam Configure and provide services from Microsoft Azure Stack Hub Implement data center integration with Microsoft Azure Stack Hub Book Description Azure Stack Hub is the on premise offering from Microsoft which provides Azure Cloud services within a customer s own data center It provides consistent processes between on site and the cloud allowing developers to test locally and deploy to the cloud in exactly the same manner Azure Stack Hub Demystified provides complete coverage of deploying configuring administering and running Microsoft Azure Stack Hub efficiently Firstly you will learn how to deploy Azure Stack Hub within an organization As you progress you ll understand configuration and the different services provided by the platform The book also focuses on the underlying architecture and connectivity options for the modern data center Later you will understand various approaches to DevOps and their implementation and learn key topics for the AZ 600 exam By the end of this Azure book you will have a thorough understanding of Azure Stack Hub and the services that are provided by the platform along with the confidence and information you need to be able to pass the AZ 600 exam What you will learn Understand the architecture of Azure Stack Hub Get up to speed with the management and administration of Azure Stack Hub Explore how to administer virtual networking within your Azure Stack Become well versed in using the Azure Stack Hub support model and updating Azure

Stack Hub Understand how licensing and billing is done with Azure Stack Hub Discover the tools that can be used to implement security within Azure Stack Hub Focus on how DevOps practices can be incorporated with Azure Stack Hub Who this book is for If you are an Azure Administrator and Azure Stack Hub Operator who provides or is looking to provide cloud services to end users or customers within their own data center then this book is for you This book will also be beneficial to those who are preparing for Exam AZ 600 Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

Optimizing Microsoft Azure Workloads Rithin Skaria, 2023-08-11 Master Azure Well Architected Framework and improve your optimization skills by enhancing the quality of your workloads Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn Well Architected Framework from a cloud solution architect and an official Microsoft trainer Optimize your workloads in Azure by following Microsoft recommended best practices Use reference architecture and Microsoft tests to conduct Well Architected Framework WAF assessment Book Description It's easy to learn and deploy resources in Microsoft Azure without worrying about resource optimization However for production or mission critical workloads it's crucial that you follow best practices for resource deployment to attain security reliability operational excellence and performance Apart from these aspects you need to account for cost considerations as it's the leading reason for almost every organization's cloud transformation In this book you'll learn to leverage Microsoft Well Architected Framework to optimize your workloads in Azure This Framework is a set of recommended practices developed by Microsoft based on five aligned pillars cost optimization performance reliability operational excellence and security You'll explore each of these pillars and discover how to perform an assessment to determine the quality of your existing workloads Through the book you'll uncover different design patterns and procedures related to each of the Well Architected Framework pillars By the end of this book you'll be well equipped to collect and assess data from an Azure environment and perform the necessary upturn of your Azure workloads What you will learn Dive deep into the Azure Well Architected Framework Explore the differences between Cloud Adoption Framework and Well Architected Framework Understand the pillars of the Well Architected Framework Discover varied techniques to improve the cost profile of your workload Optimize your workflows using Azure Advisor and its score Plan and prioritize the implementation of security recommendations from WAF assessments Who this book is for This book is for developers cloud solution architects cloud administrators and professionals experienced in design implementation and management of Azure resources Professionals looking to learn cloud optimization or switch to a new role related to architecture can benefit from this book An intermediate level understanding of the Microsoft Azure platform and services is a must Experience in implementing or designing solutions in Azure is a plus but not mandatory 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

The Definitive Guide to Microsoft Fabric Christopher Maneu,Emilie Beau,Jean-Pierre Riehl,Romain Casteres,Frederic Gisbert,2025-11-21 Master Microsoft Fabric from basics to advanced architectures with expert guidance to unify secure and scale analytics on real world data platforms Key Features Build a complete data analytics platform with Microsoft Fabric Apply proven architectures governance and security strategies Gain real world insights from five seasoned data experts Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionMicrosoft Fabric is reshaping how organizations manage analyze and act on data by unifying ingestion storage transformation analytics AI and visualization in a single platform The Definitive Guide to Microsoft Fabric takes you from your very first workspace to building a secure scalable and future proof analytics environment You ll learn how to unify data in OneLake design data meshes transform and model data implement real time analytics and integrate AI capabilities The book also covers advanced topics such as governance security cost optimization and team collaboration using DevOps and DataOps principles Drawing on the real world expertise of five seasoned professionals who have built and advised on platforms for startups SMEs and Europe s largest enterprises this book blends strategic insight with practical guidance By the end of this book you ll have gained the knowledge and skills to design deploy and operate a Microsoft Fabric platform that delivers sustainable business value What you will learn Understand Microsoft Fabric architecture and concepts Unify data storage and data governance with OneLake Ingest and transform data using multiple Fabric tools Implement real time analytics and event processing Design effective semantic models and reports Integrate AI and machine learning into data workflows Apply governance security and compliance controls Optimize performance and costs at scale Who this book is for This book is for data engineers analytics engineers architects and data analysts moving into platform design roles It s also valuable for technical leaders seeking to unify analytics in their organizations You ll need only a basic grasp of databases SQL and Python

Mastering DevOps on Microsoft Power Platform Uroš Kastelic,József Zoltán Vadkerti,2024-09-05 Learn from

Microsoft Power Platform experts how to leverage GitHub Azure DevOps and GenAI tools like Microsoft Copilots to develop and deliver secure enterprise scale solutions

Key Features

- Customize Power Platform for secure large scale deployments with the help of DevSecOps practices
- Implement code first fusion projects with ALM and infuse AI in Power Platform using copilots and ChatOps
- Get hands on experience through real world examples using Azure DevOps and GitHub

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

Mastering DevOps on Microsoft Power Platform is your guide to revolutionizing business critical solution development

Written by two Microsoft Technology Specialists with extensive experience in enterprise scale Power Platform implementations and DevOps practices this book teaches you how to design build and secure efficient DevOps processes by adapting custom software development practices to the Power Platform toolset dramatically reducing time cost and errors in app modernization and quality assurance

The book introduces application life cycle management ALM and DevOps enabled architecture design patterns and CI CD practices showing you why companies adopt DevOps with Power Platform

You ll master environment and solution management using Dataverse Git the Power Platform CLI Azure DevOps and GitHub Copilot

Implementing the shift left approach in DevSecOps using GitHub Advanced Security features you ll create a Power Platform tenant governed by controls automated tests and backlog management

You ll also discover advanced concepts such as fusion architecture pro dev extensibility and AI infused applications along with tips to avoid common pitfalls

By the end of this book you ll be able to build CI CD pipelines from development to production enhancing the life cycle of your business solutions on Power Platform

What you will learn

- Gain insights into ALM and DevOps on Microsoft Power Platform
- Set up Power Platform pipelines and environments by leveraging best practices
- Automate test monitor and secure CI CD pipelines using DevSecOps tools such as VS Code and GitHub Advanced Security on Power Platform
- Enable pro developer extensibility using fusion development to integrate Azure and Power Platform
- Provision enterprise landing zones and build well architected workloads
- Discover GenAI capabilities in Power Platform and support ChatOps with the copilot stack

Who this book is for

If you are a DevOps engineer cloud architect site reliability engineer solutions architect software developer or low code engineer looking to master end to end DevSecOps implementation on Microsoft Power Platform from basic to advanced levels this book is for you

Prior knowledge of software development processes and tools is necessary

A basic understanding of Power Platform and DevOps processes will also be beneficial

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

Neutrosophic Paradigms: Advancements in Decision Making and Statistical Analysis Florentin Smarandache,Zahid Khan,2025-03-30 This book offers a comprehensive reference guide to neutrosophic theory and its applications in decision making in numerous disciplines ranging from business economics and management computer science health and environmental sciences and many others Chapters were selected to cover different extensions of neutrosophic sets statistical techniques for dealing with imprecise data and decision making and a range of real life examples All in all the book is intended to provide a timely update on the state of the art in neutrosophic decision making for researchers and professionals from various disciplines as well as master s and graduate students in mathematics statistics and computer science

Enterprise Application Architecture with .NET Core Ganesan Senthilvel,Ovais Mehboob Ahmed Khan,Habib Ahmed Qureshi,2017-04-25 Architect and design highly scalable robust clean and highly performant applications in NET Core About This Book Incorporate architectural soft skills such as DevOps and Agile methodologies to enhance program level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced NET developers who are aspiring to become architects of enterprise grade applications as well as software architects who would like to

leverage NET to create effective blueprints of applications What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools application insights and their usage to monitor performance testability and optimization tools in an enterprise Explore various authentication models such as social media based authentication 2FA and OpenID Connect learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using NET Core as the development framework and learn about industry wide best practices and guidelines then this book is for you The book starts with a brief introduction to enterprise architecture which will help you to understand what enterprise architecture is and what the key components are It will then teach you about the types of patterns and the principles of software development and explain the various aspects of distributed computing to keep your applications effective and scalable These chapters act as a catalyst to start the practical implementation and design and develop applications using different architectural approaches such as layered architecture service oriented architecture microservices and cloud specific solutions Gradually you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques such as social media based authentication and safe storage using app secrets By the end of the book you will get to know the concepts and usage of the emerging fields such as DevOps BigData architectural practices and Artificial Intelligence Style and approach Filled with examples and use cases this guide takes a no nonsense approach to show you the best tools and techniques required to become a successful software architect

Azure Infrastructure as Code Henry Been,Erwin Staal,Eduard Keiholz,2022-08-30 Master ARM templates Bicep and other Azure Infrastructure as Code tools techniques and practices to build infrastructure on the Azure cloud In Azure Infrastructure as Code you will learn how to Create reusable infrastructure templates using advanced features of the ARM Azure Resource Manager syntax Write templates with the Azure Bicep domain specific language DSL Test ARM and Bicep templates Deploy templates using deployment pipelines Guarantee repeated outcomes when you reuse templates to replicate infrastructure Share templates between teams Provision templates to provide standards and Azure Policy to enforce them Orchestrate complex deployments using Azure DevOps and GitHub Actions Pre provision environments for other teams with deployment stacks Azure Infrastructure as Code teaches you to use Azure s native infrastructure as code IaC tools like ARM and Bicep to build manage and scale infrastructure with just a few lines of code You ll discover ARM templates deployment stacks and the powerful new language Bicep See how easy they make it to create new environments safely make infrastructure changes govern your resources using Azure Policy and prevent configuration drift Loaded with in depth coverage of syntax and lots of illustrative examples this hands on guide is a must read for anyone looking to expand their knowledge of provisioning About the technology

Automating tasks like provisioning servers operating systems and storage saves time and radically increases consistency The Infrastructure as Code IaC approach brings the tools and practices of application deployment such as Github Actions automated testing and pipeline driven deployments to infrastructure components With Azure s native IaC tools you can create whole new infrastructures with just a few lines of code using declarative specifications and an intuitive domain specific language About the book Azure Infrastructure as Code shows you how to manage and automate your infrastructure using Azure s IaC tools In this practical guide you ll discover how to set up Azure Resource Manager ARM templates and to script infrastructure creation using the Bicep DSL You ll also explore advanced topics such as testing reusing templates and defining policies as code You ll even build a complete CI CD pipeline that can orchestrate a complex infrastructure deployment across multiple regions What s inside Create reusable infrastructure templates Write templates with the Azure Bicep domain specific language Deploy templates using deployment pipelines Share templates between teams About the reader For operations infrastructure or software engineers with some Azure experience About the author Henry Been is a freelance DevOps and Azure architect and consultant Erwin Staal is an Azure architect and DevOps consultant Eduard Keilholz is a cloud solution architect Table of Contents PART 1 INTRODUCTION 1 Infrastructure as Code 2 Writing your first ARM template PART 2 TAKING IT UP A NOTCH 3 Writing ARM templates 4 Deploying ARM templates 5 Writing advanced ARM templates 6 Simplifying ARM templates using the Bicep DSL 7 Complex deployments using Azure DevOps 8 Complex deployments using GitHub Actions 9 Testing ARM templates PART 3 ADVANCED TOPICS 10 Template specs and Bicep registries Building a repository of templates 11 Using deployment stacks for grouping resources 12 Governing your subscriptions using Azure Policy 13 Case studies

Microsoft Certified: Windows Server Hybrid Administrator Associate (AZ-800)

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Devops On The Microsoft Stack Introduction

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