



Devops On The Microsoft Stack

**Bapi Chakraborty, Yashajeet
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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 **WinOps**

Jonathon Lee Wright, 2018 *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 will 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 will create a Power Platform tenant governed by controls automated tests and backlog management You will 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 will 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 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 ll 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

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 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 **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

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 Description Microsoft 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

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 for Architects](#) Ritesh Modi,Jack Lee,Rithin Skaria,2020-07-17 Build and design multiple types of applications that are cross language platform and cost effective by understanding core Azure principles and foundational concepts Key FeaturesGet familiar with the different design patterns available in Microsoft AzureDevelop Azure cloud architecture and a pipeline management systemGet to know the security best practices for your Azure deploymentBook Description Thanks to its support

for high availability scalability security performance and disaster recovery Azure has been widely adopted to create and deploy different types of application with ease Updated for the latest developments this third edition of Azure for Architects helps you get to grips with the core concepts of designing serverless architecture including containers Kubernetes deployments and big data solutions You ll learn how to architect solutions such as serverless functions you ll discover deployment patterns for containers and Kubernetes and you ll explore large scale big data processing using Spark and Databricks As you advance you ll implement DevOps using Azure DevOps work with intelligent solutions using Azure Cognitive Services and integrate security high availability and scalability into each solution Finally you ll delve into Azure security concepts such as OAuth OpenConnect and managed identities By the end of this book you ll have gained the confidence to design intelligent Azure solutions based on containers and serverless functions What you will learn Understand the components of the Azure cloud platform Use cloud design patterns Use enterprise security guidelines for your Azure deployment Design and implement serverless and integration solutions Build efficient data solutions on Azure Understand container services on Azure Who this book is for If you are a cloud architect DevOps engineer or a developer looking to learn about the key architectural aspects of the Azure cloud platform this book is for you A basic understanding of the Azure cloud platform will help you grasp the concepts covered in this book more effectively

[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

Implementing Azure: Putting Modern DevOps to Use Florian Klaffenbach, Oliver Michalski, Markus Klein, Mohamed Wali, Namit Tanasseri, Rahul Rai, 2019-01-31 Explore powerful Azure DevOps solutions to develop and deploy your software faster and more efficiently Key Features Build modern microservice based systems with Azure architecture Learn to deploy and manage cloud services and virtual machines Configure clusters with Azure Service Fabric for deployment Book Description This Learning Path helps you understand microservices architecture and leverage various services of Microsoft Azure Service Fabric to build deploy and maintain highly scalable enterprise grade applications You will learn to select an appropriate Azure backend structure for your solutions and work with its toolkit and managed apps to share your solutions with its service catalog As you progress through the Learning Path you will study Azure Cloud Services Azure managed Kubernetes and Azure Container Services deployment techniques To apply all that you ve understood you will build an end to end Azure system in scalable decoupled tiers for an industrial bakery with three business domains Toward the end of this Learning Path you will build another scalable architecture using Azure Service Bus topics to send orders between decoupled business domains with scalable worker roles processing these orders By the end of this Learning Path you will be comfortable in using development deployment and maintenance processes to build robust cloud solutions on Azure This Learning Path includes content from the following Packt products Learn Microsoft Azure by Mohamed Wali Implementing Azure Solutions Second Edition by Florian Klaffenbach Oliver Michalski Markus Klein Microservices with Azure by Namit Tanasseri and Rahul Rai What you will learn Study various Azure Service Fabric application programming models Create and manage a Kubernetes cluster in Azure Kubernetes Service Use site to site VPN

and ExpressRoute connections in your environment Design an Azure IoT app and learn to operate it in various scenarios Implement a hybrid Azure design using Azure Stack Build Azure SQL databases with Code First Migrations Integrate client applications with Web API and SignalR on Azure Implement the Azure Active Directory Azure AD across the entire system Who this book is for If you are an IT system architect network admin or a DevOps engineer who wants to implement Azure solutions for your organization this Learning Path is for you Basic knowledge of the Azure Cloud platform will be beneficial

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

Azure DevOps Explained Sjoukje Zaal, Stefano Demiliani, Amit Malik, 2020-12-11 Implement real world DevOps and cloud deployment scenarios using Azure Repos Azure Pipelines and other Azure DevOps tools Key Features Improve your application development life cycle with Azure DevOps in a step by step manner Apply continuous integration and continuous deployment to reduce application downtime Work with real world CI CD scenarios curated by a team of renowned Microsoft MVPs and MCTs Book Description Developing applications for the cloud involves changing development methodologies and procedures Continuous integration and continuous deployment CI CD processes are a must today but are often difficult to

implement and adopt Azure DevOps is a Microsoft Azure cloud service that enhances your application development life cycle and enables DevOps capabilities Starting with a comprehensive product overview this book helps you to understand Azure DevOps and apply DevOps techniques to your development projects You ll find out how to adopt DevOps techniques for your development processes by using built in Azure DevOps tools Throughout the course of this book you ll also discover how to manage a project with the help of project management techniques such as Agile and Scrum and then progress toward development aspects such as source code management build pipelines code testing and artifacts release pipelines and GitHub integration As you learn how to implement DevOps practices this book will also provide you with real world examples and scenarios of DevOps adoption By the end of this DevOps book you will have learned how to adopt and implement Azure DevOps features in your real world development processes What you will learn Get to grips with Azure DevOps Find out about project management with Azure Boards Understand source code management with Azure Repos Build and release pipelines Run quality tests in build pipelines Use artifacts and integrate Azure DevOps in the GitHub flow Discover real world CI CD scenarios with Azure DevOps Who this book is for This book is for developers solutions architects and DevOps engineers interested in getting started with cloud DevOps practices on Azure Prior understanding of Azure architecture and services is necessary Some knowledge of DevOps principles and techniques will be useful

.NET DevOps for Azure
Jeffrey Palermo, 2019-10-21 Use this book as your one stop shop for architecting a world class DevOps environment with Microsoft technologies NET DevOps for Azure is a synthesis of practices tools and process that together can equip a software organization to move fast and deliver the highest quality software The book begins by discussing the most common challenges faced by developers in DevOps today and offers options and proven solutions on how to implement DevOps for your team Daily millions of developers use NET to build and operate mission critical software systems for organizations around the world While the marketplace has scores of information about the technology it is completely up to you to put together all the blocks in the right way for your environment This book provides you with a model to build on The relevant principles are covered first along with how to implement that part of the environment And while variances in tools language or requirements will change the needed implementation the DevOps model is the architecture for the working environment for your team You can modify parts of the model to customize it to your enterprise but the architecture will enable all of your teams and applications to accelerate in performance What You Will Learn Get your NET applications into a DevOps environment in Azure Analyze and address the part of your DevOps process that causes delays or bottlenecks Track code using Azure Repos and conduct acceptance tests Apply the rules for segmenting applications into Git repositories Understand the different types of builds and when to use each Know how to think about code validation in your DevOps environment Provision and configure environments deploy release candidates across the environments in Azure Monitor and support software that has been deployed to a production environment Who This Book Is For NET Developers who are using or want to

use DevOps in Azure but don't know where to begin [Azure](#) Leo Yeh, 2022-11-27 Azure Azure Azure Azure Azure Azure Azure Azure Azure IoT Azure AI Azure Serverless Azure Azure STAR *Software Architecture with C# 9 and .NET 5* Gabriel Baptista, Francesco Abbruzzese, 2020-12-28 Design scalable and high performance enterprise applications using the latest features of C# 9 and .NET 5 Key Features Gain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular apps Design high performance software systems using the latest features of .NET 5 and C# 9 Solve scalability problems in web apps using enterprise architecture patterns Book Description Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app This fully revised and expanded second edition featuring the latest features of .NET 5 and C# 9 enables you to acquire the key skills knowledge and best practices required to become an effective software architect This second edition features additional explanation of the principles of Software architecture including new chapters on Azure Service Fabric Kubernetes and Blazor It also includes more discussion on security microservices and DevOps including GitHub deployments for the software development cycle You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non functional requirements Next you will explore how to carefully choose a cloud solution for your infrastructure along with the factors that will help you manage your app in a cloud based environment Finally you will discover software design patterns and various software approaches that will allow you to solve common problems faced during development By the end of this book you will be able to build and deliver highly scalable enterprise ready apps that meet your organization's business requirements What you will learn Use different techniques to overcome real world architectural challenges and solve design consideration issues Apply architectural approaches such as layered architecture service oriented architecture SOA and microservices Leverage tools such as containers Docker Kubernetes and Blazor to manage microservices effectively Get up to speed with Azure tools and features for delivering global solutions Program and maintain Azure Functions using C# 9 and its latest features Understand when it is best to use test driven development TDD as an approach for software development Write automated functional test cases Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack Basic familiarity with C# and .NET is required to get the most out of this book **Migrating Applications to the Cloud with Azure** Sjoukje Zaal, Amit Malik, Sander Rossel, Jason Marston, Mohamed Wali, Stefano Demiliani, 2019-12-06 Modernize your apps with Microsoft Azure by moving web desktop and mobile apps to the cloud Key Features Decide which migration strategy is most suitable for your organization and create a migration roadmap Move existing infrastructure to Azure and learn strategies to reduce cost increase storage and improve ROI Design secure scalable and cost effective solutions with the help of practical examples Book Description Whether you are trying to re architect a

legacy app or build a cloud ready app from scratch using the Azure ecosystem with NET and Java technologies helps you to strategize and plan your app modernization process effectively With this book you ll learn how to modernize your applications by using Azure for containerization DevOps microservices and serverless solutions to reduce development time and costs while also making your applications robust secure and scalable You will delve into improving application efficiency by using container services such as Azure Container Service Azure Kubernetes Service AKS and more Next you will learn to modernize your application by implementing DevOps throughout your application development life cycle You will then focus on increasing the scalability and performance of your overall application with microservices before learning how to add extra functionality to your application with Azure serverless solutions Finally you ll get up to speed with monitoring and troubleshooting techniques By the end of this book you will have learned how to use the Azure ecosystem to refactor re architect and rebuild your web mobile and desktop applications What you will learn Use DevOps and containerization technologies to modernize your applications and infrastructure Build microservices using Azure Service Fabric Develop scalable applications using Azure Functions Manage and deploy your application code and database connectivity Secure and monitor your applications in Azure effectively Design for high availability and disaster recovery Who this book is for This book is for NET and Java developers who want to modernize their applications using Azure Solution architects and experienced developers interested in modernizing legacy applications using Azure will also find this book useful Some prior understanding of cloud computing concepts will be beneficial

Software Architecture with C# 10 and .NET 6 Gabriel Baptista, Francesco Abbruzzese, 2022-03-15 Design scalable and high performance enterprise applications using the latest features of C 10 and NET 6 Key Features Gain comprehensive software architecture knowledge and the skillset to create fully modular apps Solve scalability problems in web apps using enterprise architecture patterns Master new developments in front end architecture and the application of AI for software architects Book Description Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app This fully revised and expanded third edition featuring the latest features of NET 6 and C 10 enables you to acquire the key skills knowledge and best practices required to become an effective software architect Software Architecture with C 10 and NET 6 Third Edition features new chapters that describe the importance of the software architect microservices with ASP NET Core and analyzing the architectural aspects of the front end in the applications including the new approach of NET MAUI It also includes a new chapter focused on providing a short introduction to artificial intelligence and machine learning using ML NET and updated chapters on Azure Kubernetes Service EF Core and Blazor You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non functional requirements Next you will explore how to choose a cloud solution for your infrastructure taking into account the factors that will help you manage a cloud based app successfully Finally you will analyze and implement software design patterns that

will allow you to solve common development problems By the end of this book you will be able to build and deliver highly scalable enterprise ready apps that meet your business requirements What you will learn Use proven techniques to overcome real world architectural challenges Apply architectural approaches such as layered architecture Leverage tools such as containers to manage microservices effectively Get up to speed with Azure features for delivering global solutions Program and maintain Azure Functions using C# 10 Understand when it is best to use test driven development TDD Implement microservices with ASP.NET Core in modern architectures Enrich your application with Artificial Intelligence Get the best of DevOps principles to enable CI/CD environments Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET Stack Basic familiarity with C# and .NET is required to get the most out of this book

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

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