

Azure Devops Server 2019 Cookbook Proven Recipes

Windows Server 2019 Cookbook Mark Henderson, Jordan Krause. 2020-07-22 Efficiently manage and administer enterprise environments using Microsoft Windows Server 2019 Key Features Leverage Windows Server 2019 to improve enterprise workflow efficiency and increase productivity Deliver enterprise-grade cloud services that can be applied in your infrastructure Get up and running with PowerShell and the all-new Hyper-V improvements Book Description Do you want to get up and running with essential administrative tasks in Windows Server 2019? This second edition of the Windows Server 2019 Cookbook is packed with practical recipes that will help you do just that. The book starts by taking you through the basics that you need to know to get a Windows Server operating system working, before teaching you how to navigate through daily tasks using the upgraded graphical user interface (GUI). You'll then learn how to compose an optimal Group Policy and perform task automation with PowerShell scripting. As you advance, you'll get to grips with faster app innovation, improved Windows security measures, and hybrid cloud environments. After you've explored the functions available to provide remote network access to your users, you'll cover the new Hyper-V enhancements. Finally, this Windows Server book will guide you through practical recipes relating to Azure integration and important tips for how to manage a Windows Server environment seamlessly. By the end of this book, you'll be well-versed with Windows Server 2019 essentials and have the skills you need to configure Windows services and implement best practices for securing a Windows Server environment. What you will learn Get up and running with Windows Server 2019's new features Install, configure, and administer Windows Server 2019 effectively Configure the server to host any enterprise application Discover ways to manage a server without a GUI Safeguard your virtual machines in the event of server failure Explore new ways to integrate Windows Server with Microsoft Azure Deploy Windows containers using Docker Who this book is for This Windows Server 2019 book is for system administrators and IT professionals who have basic experience in Windows environments and are interested in acquiring the skills and knowledge needed to manage and maintain the core infrastructure required for a Windows Server 2019 environment.

AWS Administration Cookbook Lucas Chan, Rowan Udell. 2017-04-24 Build, automate, and manage your AWS-based cloud environments About This Book Install, configure, and administer computing, storage, and networking in the AWS cloud Automate your infrastructure and control every aspect of it through infrastructure as code Work through exciting recipes to administer your AWS cloud Who This Book Is For If you are an administrator, DevOps engineer, or an IT professional who is moving to an AWS-based cloud environment, then this book is for you. It assumes familiarity with cloud computing platforms, and that you have some understanding of virtualization, networking, and other administration-related tasks. What You Will Learn Discover the best practices to achieve an automated repeatable infrastructure in AWS Bring down your IT costs by managing AWS successfully and deliver high availability, fault tolerance, and scalability Make any website faster with static and dynamic caching Create monitoring and alerting dashboards using CloudWatch Migrate a database to AWS Set up consolidated billing to achieve simple and effective cost management with accounts Host a domain and find out how you can automate health checks In Detail Amazon Web Services (AWS) is a bundled remote computing service that provides cloud computing infrastructure over the Internet with storage, bandwidth, and customized support for application programming interfaces (API). Implementing these services to efficiently administer your cloud environments is a core task. This book will help you build and administer your cloud environment with AWS. We'll begin with the AWS fundamentals, and you'll build the foundation for the recipes you'll work on throughout the book. Next, you will find out how to manage multiple

accounts and set up consolidated billing. You will then learn to set up reliable and fast hosting for static websites, share data between running instances, and back up your data for compliance. Moving on, you will find out how to use the compute service to enable consistent and fast instance provisioning, and will see how to provision storage volumes and autoscale an application server. Next, you'll discover how to effectively use the networking and database service of AWS. You will also learn about the different management tools of AWS along with securing your AWS cloud. Finally, you will learn to estimate the costs for your cloud. By the end of the book, you will be able to easily administer your AWS cloud. Style and approach This practical guide is packed with clear, practical, instruction-based recipes that will enable you to use and implement the latest features of AWS.

Mastering Windows Server 2019 Jordan Krause.2021-07-29 Enhance and secure your datacenter with Microsoft Windows Server 2019 Key Features Updated with four new chapters on Active Directory, DNS and DHCP, group policy, and troubleshooting Design and implement Microsoft Server 2019 in an enterprise environment Learn how to use Windows Server to create secure and efficient networks Book Description Written by a nine-time Microsoft MVP award winner with over twenty years of experience working in IT, Mastering Windows Server 2019 is a hands-on guide for anyone looking to keep their skills up to date. This third edition comes with four new chapters to provide you with the in-depth knowledge needed to implement and use this operating system in any environment. Centralized management, monitoring, and configuration of servers are key to an efficient IT department. This book delves into multiple methods for quickly managing all your servers from a single pane of glass' — the ability to monitor different servers across a network using Server Manager, Windows PowerShell, and even Windows Admin Center — from anywhere. Despite the focus on Windows Server 2019 LTSC, you will still explore containers and Nano Server, which are more related to the SAC of server releases. This additional coverage will give you insights into all aspects of using Windows Server 2019 in your environment. This book covers a range of remote access technologies available in this operating system, teaches management of PKI and certificates, and empowers you to virtualize your datacenter with Hyper-V. You will also discover the tools and software included with Windows Server 2019 that assist in the inevitable troubleshooting of problems that crop up. What you will learn Work with Server Core and Windows Admin Center Secure your network and data with modern technologies in Windows Server 2019 Understand containers and understand when to use Nano Server Discover new ways to integrate your datacenter with Microsoft Azure Reinforce and secure your Windows Server Virtualize your datacenter with Hyper-V Explore Server Manager, PowerShell, and Windows Admin Center Centralize your information and services using Active Directory and Group Policy Who this book is for If you are a system administrator or an IT professional designing and deploying Windows Server 2019, this book is for you. It will be particularly useful for sysadmins who've worked with older versions of Microsoft Server or those who want to stay up to date with new developments. Prior experience with Windows Server operating systems and familiarity with networking concepts is a must.

The Robotic Process Automation Handbook Tom Taulli.2020-02-28 While Robotic Process Automation (RPA) has been around for about 20 years, it has hit an inflection point because of the convergence of cloud computing, big data and AI. This book shows you how to leverage RPA effectively in your company to automate repetitive and rules-based processes, such as scheduling, inputting/transferring data, cut and paste, filling out forms, and search. Using practical aspects of implementing the technology (based on case studies and industry best practices), you'll see how companies have been able to realize substantial ROI (Return On Investment) with their implementations, such as by lessening the need for hiring or outsourcing. By understanding the core concepts of RPA, you'll also see that the technology significantly increases compliance - leading to fewer issues with regulations - and minimizes costly errors. RPA software revenues have recently soared by over 60 percent, which is the fastest ramp in the tech industry, and they are expected to exceed \$1 billion by the end of 2019. It is generally seamless with legacy IT environments, making it

easier for companies to pursue a strategy of digital transformation and can even be a gateway to AI. The Robotic Process Automation Handbook puts everything you need to know into one place to be a part of this wave. What You'll Learn Develop the right strategy and plan Deal with resistance and fears from employees Take an in-depth look at the leading RPA systems, including where they are most effective, the risks and the costs Evaluate an RPA system Who This Book Is For IT specialists and managers at mid-to-large companies

Azure DevOps Server 2019 Cookbook Tarun Arora, Utkarsh Shigihalli. 2019-05-03 Over 70 recipes to effectively apply DevOps best practices and implement Agile, Git, CI-CD & Test automation using Azure DevOps Server (TFS) 2019 Key Features Learn improving code quality using pull requests, branch policies, githooks and git branching design Accelerate the deployment of high quality software by automating build and releases using CI-CD Pipelines. Learn tried and tested techniques to automate database deployments, App Service & Function Deployments in Azure. Book Description Azure DevOps Server, previously known as Team Foundation Server (TFS), is a comprehensive on-premise DevOps toolset with a rich ecosystem of open source plugins. This book is your one stop guide to learn how to effectively use all of these Azure DevOps services to go from zero to DevOps. You will start by building high-quality scalable software targeting .NET, .NET core or Node.js applications. You will learn techniques that will help you to set up end-to-end traceability of your code changes from design through to release. Whether you are deploying software on-premise or in the cloud in App Service, Functions, or Azure VMs, this book will help you learn release management techniques to reduce release failures. Next, you will be able to secure application configuration by using Azure KeyVault. You will also learn how to create and release extensions to the Azure DevOps marketplace and reach million developer ecosystem for feedback. The working extension samples will allow you to iterate changes in your extensions easily and release updates to the marketplace quickly. By the end of this book, techniques provided in the book will help you break down the invisible silos between your software development teams. This will transform you from being a good software development team to an elite modern cross functional software development team. What you will learn Set up a team project for an Agile delivery team, importing requirements from ExcelPlan, track, and monitor progress using self updating boards, Sprint and Kanban boards Unlock the features of Git by using branch policies, Git pull requests, forks, and Git hooks Build and release .NET core, SQL and Node.js applications using Azure Pipeline Automate testing by integrating Microsoft and open source testing frameworks Extend Azure DevOps Server to a million developer ecosystem Who this book is for This book is for anyone looking to succeed with DevOps. The techniques in this book apply to all roles of the software development lifecycle including developers, testers, architects, configuration analysts, site reliability engineers and release managers. If you are a new user you'll learn how to get started; if you are an experienced user you'll learn how to launch your project into a modern and mature DevOps enabled software development team.

Azure Databricks Cookbook Phani Raj, Vinod Jaiswal. 2021-09-17 Get to grips with building and productionizing end-to-end big data solutions in Azure and learn best practices for working with large datasets Key Features Integrate with Azure Synapse Analytics, Cosmos DB, and Azure HDInsight Kafka Cluster to scale and analyze your projects and build pipelines Use Databricks SQL to run ad hoc queries on your data lake and create dashboards Productionize a solution using CI/CD for deploying notebooks and Azure Databricks Service to various environments Book Description Azure Databricks is a unified collaborative platform for performing scalable analytics in an interactive environment. The Azure Databricks Cookbook provides recipes to get hands-on with the analytics process, including ingesting data from various batch and streaming sources and building a modern data warehouse. The book starts by teaching you how to create an Azure Databricks instance within the Azure portal, Azure CLI, and ARM templates. You'll work through clusters in Databricks and explore recipes for ingesting data from sources, including files, databases, and streaming sources such as Apache Kafka and EventHub. The book will help you explore all the features supported by Azure Databricks for building powerful end-to-end data pipelines. You'll also

find out how to build a modern data warehouse by using Delta tables and Azure Synapse Analytics. Later, you'll learn how to write ad hoc queries and extract meaningful insights from the data lake by creating visualizations and dashboards with Databricks SQL. Finally, you'll deploy and productionize a data pipeline as well as deploy notebooks and Azure Databricks service using continuous integration and continuous delivery (CI/CD). By the end of this Azure book, you'll be able to use Azure Databricks to streamline different processes involved in building data-driven apps. What you will learn

Read and write data from and to various Azure resources and file formats

Build a modern data warehouse with Delta Tables and Azure Synapse Analytics

Explore jobs, stages, and tasks and see how Spark lazy evaluation works

Handle concurrent transactions and learn performance optimization in Delta tables

Learn Databricks SQL and create real-time dashboards in Databricks SQL

Integrate Azure DevOps for version control, deploying, and productionizing solutions with CI/CD pipelines

Discover how to use RBAC and ACLs to restrict data access

Build end-to-end data processing pipeline for near real-time data analytics

Who this book is for

This recipe-based book is for data scientists, data engineers, big data professionals, and machine learning engineers who want to perform data analytics on their applications. Prior experience of working with Apache Spark and Azure is necessary to get the most out of this book.

Machine Learning with Amazon SageMaker Cookbook Joshua Arvin Lat.2021-10-29 A step-by-step solution-based guide to preparing building, training, and deploying high-quality machine learning models with Amazon SageMaker

Key Features

Perform ML experiments with built-in and custom algorithms in SageMaker

Explore proven solutions when working with TensorFlow, PyTorch, Hugging Face Transformers, and scikit-learn

Use the different features and capabilities of SageMaker to automate relevant ML processes

Book Description

Amazon SageMaker is a fully managed machine learning (ML) service that helps data scientists and ML practitioners manage ML experiments. In this book, you'll use the different capabilities and features of Amazon SageMaker to solve relevant data science and ML problems. This step-by-step guide features 80 proven recipes designed to give you the hands-on machine learning experience needed to contribute to real-world experiments and projects. You'll cover the algorithms and techniques that are commonly used when training and deploying NLP, time series forecasting, and computer vision models to solve ML problems. You'll explore various solutions for working with deep learning libraries and frameworks such as TensorFlow, PyTorch, and Hugging Face Transformers in Amazon SageMaker. You'll also learn how to use SageMaker Clarify, SageMaker Model Monitor, SageMaker Debugger, and SageMaker Experiments to debug, manage, and monitor multiple ML experiments and deployments. Moreover, you'll have a better understanding of how SageMaker Feature Store, Autopilot, and Pipelines can meet the specific needs of data science teams. By the end of this book, you'll be able to combine the different solutions you've learned as building blocks to solve real-world ML problems.

What you will learn

Train and deploy NLP, time series forecasting, and computer vision models to solve different business problems

Push the limits of customization in SageMaker using custom container images

Use AutoML capabilities with SageMaker Autopilot to create high-quality models

Work with effective data analysis and preparation techniques

Explore solutions for debugging and managing ML experiments and deployments

Deal with bias detection and ML explainability requirements using SageMaker Clarify

Automate intermediate and complex deployments and workflows using a variety of solutions

Who this book is for

This book is for developers, data scientists, and machine learning practitioners interested in using Amazon SageMaker to build, analyze, and deploy machine learning models with 80 step-by-step recipes. All you need is an AWS account to get things running. Prior knowledge of AWS, machine learning, and the Python programming language will help you to grasp the concepts covered in this book more effectively.

SharePoint Development with the SharePoint Framework Jussi Roine,Olli Jaaskelainen.2017-09-29 Design and create beautiful solutions using modern development tools for SharePoint Online

About This Book

Get the best out of the latest Sharepoint Framework and leverage the Sharepoint RESTful and JSOM APIs. Develop efficient client side applications with JavaScript injection and Sharepoint Addins. Get the best tips and tricks on designing your website

flawlessly. Who This Book Is For This book targets current SharePoint developers, as well as people starting their journey on SharePoint development. The reader must have basic web development programming knowledge, including JavaScript and CSS. The reader should have familiarity using and managing SharePoint-based collaboration sites. What You Will Learn Understand what the SharePoint Framework is Create modern solutions using the new tools, approaches and frameworks Learn how to use Visual Studio Code for effective SharePoint development Package and deploy your code, using automation as needed Work with content and data stored in SharePoint Benefit from third party frameworks without having to build your own frameworks Debug and troubleshoot your code with ease Configure security in your application In Detail SharePoint is one of Microsoft's best known web platforms. A loyal audience of developers, IT Pros and power users use it to build line of business solutions. The SharePoint Framework (SPFx) is a great new option for developing SharePoint solutions. Many developers are creating full-trust based solutions or add-in solutions, while also figuring out where and how SPFx fits in the big picture. This book shows you how design, build, deploy and manage SPFx based solutions for SharePoint Online and SharePoint 2016. The book starts by getting you familiar with the basic capabilities of SPFx. After that, we will walk through the tool-chain on how to best create production-ready solutions that can be easily deployed manually or fully automated throughout your target Office 365 tenants. We describe how to configure and use Visual Studio Code, the de facto development environment for SPFx-based solutions. Next, we provide guidance and a solid approach to packaging and deploying your code. We also present a straightforward approach to troubleshooting and debugging your code an environment where business applications run on the client side instead of the server side. Style and approach The approach will be that of a practical tutorial which will take you through every topic using code samples and working examples.

DevOps with Windows Server 2016 Ritesh Modi.2017-03-24 Obtain enterprise agility and continuous delivery by implementing DevOps with Windows Server 2016 About This Book This practical learning guide will improve your application lifecycle management and help you manage environments efficiently Showcase through a sample application ways to apply DevOps principles and practices in the real world Implement DevOps using latest technologies in Windows Server 2016 such as Windows Container, Docker, and Nano Servers Who This Book Is For This book is for .NET developers and system administrators who have a basic knowledge of Windows Server 2016 and are now eager to implement DevOps at work using Windows Server 2016. Knowledge of Powershell, Azure, and containers will help. What You Will Learn Take a deep dive into the fundamentals, principles, and practices of DevOps Achieve an end-to-end DevOps implementation Execute source control management using GITHUB and VSTS vNext Automate the provisioning and configuration of infrastructure Build and release pipeline Measure the success of DevOps through application instrumentation and monitoring In Detail Delivering applications swiftly is one of the major challenges faced in fast-paced business environments. Windows Server 2016 DevOps is the solution to these challenges as it helps organizations to respond faster in order to handle the competitive pressures by replacing error-prone manual tasks using automation. This book is a practical description and implementation of DevOps principles and practices using the features provided by Windows Server 2016 and VSTS vNext. It jumps straight into explaining the relevant tools and technologies needed to implement DevOps principles and practices. It implements all major DevOps practices and principles and takes readers through it from envisioning a project up to operations and further. It uses the latest and upcoming concepts and technologies from Microsoft and open source such as Docker, Windows Container, Nano Server, DSC, Pester, and VSTS vNext. By the end of this book, you will be well aware of the DevOps principles and practices and will have implemented all these principles practically for a sample application using the latest technologies on the Microsoft platform. You will be ready to start implementing DevOps within your project/engagement. Style and approach This practical, learning book is linear and progressive, and every chapters builds on the previous chapters. We focus on the practical skills required to implement DevOps, with a summary of the key concepts only where strictly necessary.

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.

Implementing Microsoft SharePoint 2019 Lewin Wanzer, Angel Wood. 2020-12-30
Bring on-premise and cloud collaboration features to life with Microsoft's enterprise content management platform - SharePoint Server
Key Features
Get up to speed with the latest version of SharePoint and make the most of its features
Set up and effectively manage your SharePoint Farm in the cloud or on premise
Learn how to align your development tools and cloud infrastructure to support collaboration
Book Description
Microsoft's latest addition to their product range, SharePoint Server 2019, is a new enterprise content management platform that brings on-premise collaboration features to life. It can be used as an isolated platform or in a hybrid connected configuration providing management and connectivity to Office 365. You can use the SharePoint framework to host sites, information, data, and applications in a robust CMS that centralizes collaborative content for enterprises. SharePoint 2019 enables new integrations and features that will allow you to work seamlessly with new and old Office products such as Microsoft Power Apps and other Microsoft Office applications. Implementing Microsoft SharePoint 2019 will help you understand the challenges, planning, migration steps, installation concepts, and configuration involved in providing this platform for your enterprise. The book will also show you what the platform brings to the table from an on-premise server perspective. If you're new to SharePoint 2019, you'll also be guided through how to get servers up and running so that you and your user community can become productive with this powerful new platform. By the end of this book, you'll be well-versed in Microsoft SharePoint 2019 and have the knowledge you need to apply your skills in the real world. What you will learn
Understand changes to the platform and how to migrate from other versions of SharePoint
Explore infrastructure planning and governance relating to collaborative

environments Install and configure network components, servers, and desktops Use SharePoint services and other Microsoft product servers and apps Monitor and troubleshoot SharePoint after it is implemented Discover the tools that can be used with SharePoint 2019 for BI and reporting Delve into social features and collaboration Maintain, monitor, and support the rollout of the platform in your enterprise Who this book is for The book is for SharePoint administrators, developers, and architects who have some experience in designing, planning, implementing, and managing SharePoint Farms.

Azure Devops Vishal Garg. 2021-04-03 Azure Devops interview questions is designed to help readers learn the basic concepts of Azure Devops. This book covers all the concepts of Azure Devops with the help of Interview question and Answers. More than 100 Questions are included in this book which are frequently asked in current scenario. It covers all the key areas of Devops like Kanban boards, Repos, Pipelines, Artifacts, Work Items, Git, Agile, Scrum, Branching concepts, Sprints, Backlogs, Queries etc.

Serverless Programming Cookbook Heartin Kanikathottu. 2019-01-31 Build, secure, and deploy real-world serverless applications in AWS and peek into the serverless cloud offerings from Azure, Google Cloud, and IBM Cloud Key Features Build serverless applications with AWS Lambda, AWS CloudFormation and AWS CloudWatch Perform data analytics and natural language processing (NLP) on the AWS serverless platform Explore various design patterns and best practices involved in serverless computing Book Description Managing physical servers will be a thing of the past once you're able to harness the power of serverless computing. If you're already prepped with the basics of serverless computing, *Serverless Programming Cookbook* will help you take the next step ahead. This recipe-based guide provides solutions to problems you might face while building serverless applications. You'll begin by setting up Amazon Web Services (AWS), the primary cloud provider used for most recipes. The next set of recipes will cover various components to build a Serverless application including REST APIs, database, user management, authentication, web hosting, domain registration, DNS management, CDN, messaging, notifications and monitoring. The book also introduces you to the latest technology trends such as Data Streams, Machine Learning and NLP. You will also see patterns and practices for using various services in a real world application. Finally, to broaden your understanding of Serverless computing, you'll also cover getting started guides for other cloud providers such as Azure, Google Cloud Platform and IBM cloud. By the end of this book, you'll have acquired the skills you need to build serverless applications efficiently using various cloud offerings. What you will learn Serverless computing in AWS and explore services with other clouds Develop full-stack apps with API Gateway, Cognito, Lambda and DynamoDB Web hosting with S3, CloudFront, Route 53 and AWS Certificate Manager SQS and SNS for effective communication between microservices Monitoring and troubleshooting with CloudWatch logs and metrics Explore Kinesis Streams, Amazon ML models and Alexa Skills Kit Who this book is for For developers looking for practical solutions to common problems while building a serverless application, this book provides helpful recipes. To get started with this intermediate-level book, knowledge of basic programming is a must.

Learn OpenGL Frahaan Hussain. 2018-08-31 A step-by-step instructional guide to understanding the fundamentals of game development with OpenGL. Right from the setup to the important features, we'll get a better understanding of games and the engines behind them. Key Features Learn the basics of drawing along with fundamentals of shading to create amazing objects. Get in-depth knowledge of lighting and materials to make realistic objects. Understand the fundamentals of model loading and cube mapping. Book Description Learn OpenGL is your one-stop reference guide to get started with OpenGL and C++ for game development. From setting up the development environment to getting started with basics of drawing and shaders, along with concepts such as lighting, model loading, and cube mapping, this book will get you up to speed with the fundamentals. You begin by setting up your development environment to use OpenGL on Windows and macOS. With GLFW and GLEW set up using absolute and relative linking done, you are ready to setup SDL and SFML for both the operating systems. Now that your development environment is set up, you'll

learn to draw using simple shaders as well as make the shader more adaptable and reusable. Then we move on to more advanced topics like texturing your objects with images and transforming your objects using translate, rotate and scale. With these concepts covered, we'll move on to topics like lighting to enable you to incorporate amazing dynamic lights in your game world. By the end of the book, you'll learn about model loading, right from setting up ASSIMP to learning about the model class and loading a model in your game environment. We will conclude by understanding cube mapping to bring advance worlds to your game. What you will learn Set up GLFW and GLEW on Windows and macOS with absolute, relative Linking Set up SDL and SFML on your system using absolute and relative Linking Draw using the simple shaders Create a camera and learn to populate your game world with objects Learn about color and lighting concepts to create an amazing game world Understand model loading and cube mapping to advance your game Who this book is for This book is targeted towards anyone and everyone who is interested in creating games, learning how game engines work and most importantly for anyone who is interested in learning OpenGL. The ideal reader for this book would be anyone with a passion for learning game development or looking out for an OpenGL reference guide. The skills that you'll learn in this book will be applicable to all your game development needs. You'll require a strong foundation in C++ to understand and apply the concepts of this book.

Amazon Web Services in Action Michael Wittig, Andreas Wittig. 2018-09-15 Summary Amazon Web Services in Action, Second Edition is a comprehensive introduction to computing, storing, and networking in the AWS cloud. You'll find clear, relevant coverage of all the essential AWS services you to know, emphasizing best practices for security, high availability and scalability. Foreword by Ben Whaley, AWS community hero and author. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The largest and most mature of the cloud platforms, AWS offers over 100 prebuilt services, practically limitless compute resources, bottomless secure storage, as well as top-notch automation capabilities. This book shows you how to develop, host, and manage applications on AWS. About the Book Amazon Web Services in Action, Second Edition is a comprehensive introduction to deploying web applications in the AWS cloud. You'll find clear, relevant coverage of all essential AWS services, with a focus on automation, security, high availability, and scalability. This thoroughly revised edition covers the latest additions to AWS, including serverless infrastructure with AWS Lambda, sharing data with EFS, and in-memory storage with ElastiCache. What's inside Completely revised bestseller Secure and scale distributed applications Deploy applications on AWS Design for failure to achieve high availability Automate your infrastructure About the Reader Written for mid-level developers and DevOps engineers. About the Author Andreas Wittig and Michael Wittig are software engineers and DevOps consultants focused on AWS. Together, they migrated the first bank in Germany to AWS in 2013. Table of Contents PART 1 - GETTING STARTED What is Amazon Web Services? A simple example: WordPress in five minutes PART 2 - BUILDING VIRTUAL INFRASTRUCTURE CONSISTING OF COMPUTERS AND NETWORKING Using virtual machines: EC2 Programming your infrastructure: The command-line, SDKs, and CloudFormation Automating deployment: CloudFormation, Elastic Beanstalk, and OpsWorks Securing your system: IAM, security groups, and VPC Automating operational tasks with Lambda PART 3 - STORING DATA IN THE CLOUD Storing your objects: S3 and Glacier Storing data on hard drives: EBS and instance store Sharing data volumes between machines: EFS Using a relational database service: RDS Caching data in memory: Amazon ElastiCache Programming for the NoSQL database service: DynamoDB PART 4 - ARCHITECTING ON AWS Achieving high availability: availability zones, auto-scaling, and CloudWatch Decoupling your infrastructure: Elastic Load Balancing and Simple Queue Service Designing for fault tolerance Scaling up and down: auto-scaling and CloudWatch

Terraform Cookbook Mikael Krief. 2020-10-15 Discover how to manage and scale your infrastructure using Infrastructure as Code (IaC) with Terraform Key Features Get up and running with the latest version of Terraform, v0.13 Design and manage infrastructure that can be shared, tested, modified, provisioned, and deployed Work through practical recipes to achieve zero-downtime deployment and

scale your infrastructure effectively

Book Description HashiCorp Configuration Language (HCL) has changed how we define and provision a data center infrastructure with the launch of Terraform—one of the most popular and powerful products for building Infrastructure as Code. This practical guide will show you how to leverage HashiCorp's Terraform tool to manage a complex infrastructure with ease. Starting with recipes for setting up the environment, this book will gradually guide you in configuring, provisioning, collaborating, and building a multi-environment architecture. Unlike other books, you'll also be able to explore recipes with real-world examples to provision your Azure infrastructure with Terraform. Once you've covered topics such as Azure Template, Azure CLI, Terraform configuration, and Terragrunt, you'll delve into manual and automated testing with Terraform configurations. The next set of chapters will show you how to manage a balanced and efficient infrastructure and create reusable infrastructure with Terraform modules. Finally, you'll explore the latest DevOps trends such as continuous integration and continuous delivery (CI/CD) and zero-downtime deployments. By the end of this book, you'll have developed the skills you need to get the most value out of Terraform and manage your infrastructure effectively.

What you will learn

- Understand how to install Terraform for local development
- Get to grips with writing Terraform configuration for infrastructure provisioning
- Use Terraform for advanced infrastructure use cases
- Understand how to write and use Terraform modules
- Discover how to use Terraform for Azure infrastructure provisioning
- Become well-versed in testing Terraform configuration
- Execute Terraform configuration in CI/CD pipelines
- Explore how to use Terraform Cloud

Who this book is for

This book is for developers, operators, and DevOps engineers looking to improve their workflow and use Infrastructure as Code. Experience with Microsoft Azure, Jenkins, shell scripting, and DevOps practices is required to get the most out of this Terraform book.

Docker in Practice, Second Edition Ian Miell, Aidan Sayers. 2019-02-06 Summary Docker in Practice, Second Edition presents over 100 practical techniques, hand-picked to help you get the most out of Docker. Following a Problem/Solution/Discussion format, you'll walk through specific examples that you can use immediately, and you'll get expert guidance on techniques that you can apply to a whole range of scenarios. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Docker's simple idea—wrapping an application and its dependencies into a single deployable container—created a buzz in the software industry. Now, containers are essential to enterprise infrastructure, and Docker is the undisputed industry standard. So what do you do after you've mastered the basics? To really streamline your applications and transform your dev process, you need relevant examples and experts who can walk you through them. You need this book. About the Book Docker in Practice, Second Edition teaches you rock-solid, tested Docker techniques, such as replacing VMs, enabling microservices architecture, efficient network modeling, offline productivity, and establishing a container-driven continuous delivery process. Following a cookbook-style problem/solution format, you'll explore real-world use cases and learn how to apply the lessons to your own dev projects. What's inside

- Continuous integration and delivery
- The Kubernetes orchestration tool
- Streamlining your cloud workflow
- Docker in swarm mode
- Emerging best practices and techniques

About the Reader Written for developers and engineers using Docker in production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies.

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Azure DevOps for Web Developers Ambily K K.2021-02-25 Explore the architecture, product offerings, and the various stages of implementation processes in Azure DevOps. The book starts with the basic concepts of DevOps and moves on to discuss project management in Azure DevOps. Next, you will learn requirement management and version control in DevOps. Along the way, you will go through test management followed by continuous integration and build automation with more details on code quality and security implementations. Moving forward, you will learn release pipeline and infrastructure as code implementation including ARM-based environment provisioning and execution. Finally, you'll cover DevOps architecture blueprints used for deploying your web applications to different platforms . After reading this book, you will be able to understand each stage of Azure DevOps and master its implementation. What You Will Learn Understand the various concepts of Azure DevOps Apply DevOps concepts in a variety of application contexts including web applications, containers, and database Understand the implementation of end-to-end DevOps in Azure Work with the different DevOps design patterns and architectures in Azure Who Is This Book For: Developers and architects working with Azure.

Dynamics 365 Business Central Development Quick Start Guide Stefano Demiliani, Duilio Tacconi.2018-08-27 Understanding the new Microsoft Extension model for development Key Features Develop solutions for Dynamics 365 Business Central Orient yourself with the new Microsoft Extension model for development Learn modern ways to develop with Dynamics 365 Business Central Book Description Microsoft Dynamics 365 Business Central is the new SaaS ERP proposition from Microsoft. This latest version has many exciting features guaranteed to make your life easier. This book is an ideal guide to Dynamics 365 Business Central and will help you get started with implementing and designing solutions for real-world scenarios. This book will take you through the fundamental topics for implementing solutions based on Dynamics 365 Business Central (on-premise and SaaS). We'll see the core topics of the new development model (based on extensions) and we'll see how to create applications with the new Microsoft ERP proposition. The book begins by explaining the basics of Dynamics 365 Business Central and the Microsoft ERP proposition. We will then cover topics such as extensions, the new modern development model of Visual studio code, sandboxes, Docker, and many others. By the end of the book, you will have learned how to debug and compile extensions and to deploy them to the cloud and on-premise. You will also have learned how to create serverless business processes for Microsoft Dynamics 365 Business Central. What you will learn Develop solutions for Dynamics 365 Business Central Create a sandbox for extensions development (local or on cloud) Use Docker with Dynamics 365 Business Central Create extensions for Dynamics 365 Business Central Handle dependencies, translations and reporting Deploy extensions on-premise and to the cloud Create serverless processes with Dynamics 365 Business Central Understand source code management for AL Who this book is for This book is for Microsoft Dynamics 365 Business Central solution developers and architects that needs to implement solutions based on the Microsoft's ERP (on-premise and SaaS).

Active Directory Administration Cookbook Sander Berkouwer.2019-05-03 Learn the intricacies of managing Azure AD and Azure AD Connect, as well as Active Directory for administration on cloud and Windows Server 2019 Key Features Expert solutions for the federation, certificates, security, and monitoring with Active Directory Explore Azure AD and AD Connect for effective administration on cloud Automate security tasks using Active Directory and PowerShell Book Description Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you'll learn how to manage domain controllers, organizational units and the default containers. Going forward, you'll explore managing Active Directory sites as well as identifying and solving replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You'll also work through recipes that help you manage your Active Directory domains, manage user and group objects and computer accounts, expiring group memberships and group Managed Service Accounts (gMSAs) with PowerShell. You'll

understand how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure Active Directory and how to integrate on-premises Active Directory with Azure AD. You'll discover how Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned about Active Directory and Azure AD in detail. What you will learn Manage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policies Work with Active Directory from the command line and use Windows PowerShell to automate tasks Create and remove forests, domains, and trusts Create groups, modify group scope and type, and manage memberships Delegate control, view and modify permissions Optimize Active Directory and Azure AD in terms of security Who this book is for This book will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating System knowledge would come in handy.

NGINX Cookbook Derek DeJonghe. 2020-10-28 NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. This cookbook provides easy-to-follow examples to real-world problems in application delivery. The practical recipes will help you set up and use either the open source or commercial offering to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs, and common web protocols including TCP and HTTP, these recipes provide proven solutions for security, software load balancing, and monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and NGINX Plus, the free and licensed versions of this server. You'll find recipes for: High-performance load balancing with HTTP, TCP, and UDP Securing access through encrypted traffic, secure links, HTTP authentication subrequests, and more Deploying NGINX to Google Cloud, AWS, and Azure cloud computing services Setting up and configuring NGINX Controller Installing and configuring the NGINX Plus App Protect module Enabling WAF through Controller ADC

NGINX Cookbook Derek DeJonghe. 2018 NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. The 2019 edition of this popular cookbook provides more than 80 practical recipes to help you set up and use this open source server to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs, and common web protocols, including TCP and HTTP, these recipes provide proven solutions for security, software load balancing, and monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and NGINX Plus, the free and licensed versions of this server. You'll find recipes for: High-performance load balancing with HTTP, TCP, and UDP Traffic management and A/B testing Managing programmability and automation with dynamic templating and the NGINX Plus API Securing access through encrypted traffic, secure links, HTTP authentication subrequests, and more Deploying NGINX to AWS, Azure, and Google cloud-computing services Using Docker to deploy containers and microservices Debugging and troubleshooting, performance tuning, and practical ops tips.

Mastering PowerShell Scripting Chris Dent. 2021-06-29 This complete guide takes you on a tour of PowerShell from the basics to its advanced functionality, helping you automate your tedious and time-consuming system admin tasks Key Features Automate complex tasks, manipulate data, and secure your environment Work with dual code for PowerShell 7 and Windows PowerShell to maintain compatibility with older versions See PowerShell in action, from learning the fundamentals to creating classes, scripts, and modules Book Description PowerShell scripts offer a convenient way to automate various tasks, but working with them can be daunting. Mastering PowerShell Scripting takes away the fear and helps you navigate through PowerShell's capabilities. This extensively revised edition includes new chapters on debugging and troubleshooting and creating GUIs (online chapter). Learn the new features of PowerShell 7.1 by working with parameters, objects, and .NET

classes from within PowerShell 7.1. This comprehensive guide starts with the basics before moving on to advanced topics, including asynchronous processing, desired state configuration, using more complex scripts and filters, debugging issues, and error-handling techniques. Explore how to efficiently manage substantial amounts of data and interact with other services using PowerShell 7.1. This book will help you to make the most of PowerShell's automation features, using different methods to parse data, manipulate regular expressions, and work with Windows Management Instrumentation (WMI). What you will learn Optimize code with functions, switches, and looping structures Test and debug your scripts as well as raising and catching errors Work with objects and operators to test and manipulate data Parse and manipulate different data types Use jobs, runspaces, and runspace pools to run code asynchronously Write .NET classes with ease within PowerShell Create and implement regular expressions in PowerShell scripts Make use of advanced techniques to define and restrict the behavior of parameters Who this book is for This book is for system administrators who want to automate and speed up their processes using PowerShell and Windows PowerShell. You'll need to know the basics of operating systems, but beginners with no prior experience with PowerShell will have no trouble following along.

Azure Networking Cookbook Mustafa Toroman.2019-03-30 Learn to distribute network traffic, optimize application delivery, and defend network-level threats. Key Features Quickly get up and running with Azure networking solutions Level-up your cloud networking skills by planning, implementing, configuring, and securing your infrastructure network with Azure Leverage Azure networking services to provide applications highly available and fault tolerant environment Book Description Microsoft provides organizations with an effective way of managing their network with Azure's networking services. No matter the size of your organization, Azure provides a way to highly reliable performance and secure connectivity with its networking services. The book starts with an introduction to the Azure networking like creating Azure virtual networks, designing address spaces and subnets. Then you will learn to create and manage network security groups, application security groups, and IP addresses in Azure. Gradually, we move on to various aspects like S2S, P2S, and Vnet2Vnet connections, DNS and routing, load balancers and traffic manager. This book will cover every aspect and function required to deliver practical recipes to help readers learn from basic cloud networking practices to planning, implementing, and securing their infrastructure network with Azure. Readers will not only be able to upscale their current environment but will also learn to monitor, diagnose, and ensure secure connectivity. After learning to deliver a robust environment readers will also gain meaningful insights from recipes on best practices. By the end of this book, readers will gain hands-on experience in providing cost-effective solutions that benefit organizations. What you will learn Learn to create Azure networking services Understand how to create and work on hybrid connections Configure and manage Azure network services Learn ways to design high availability network solutions in Azure Discover how to monitor and troubleshoot Azure network resources Learn different methods of connecting local networks to Azure virtual networks Who this book is for This book is targeted towards cloud architects, cloud solution providers, or any stakeholders dealing with networking on the Azure cloud. Some prior understanding of Microsoft Azure will be a plus point.

Ceph Cookbook Vikhyat Umrao, Michael Hackett, Karan Singh.2017-11-24 Over 100 effective recipes to help you design, implement, and troubleshoot manage the software-defined and massively scalable Ceph storage system. About This Book Implement a Ceph cluster successfully and learn to manage it. Recipe based approach in learning the most efficient software defined storage system Implement best practices on improving efficiency and security of your storage cluster Learn to troubleshoot common issues experienced in a Ceph cluster Who This Book Is For This book is targeted at storage and cloud engineers, system administrators, or anyone who is interested in building software defined storage, to power your cloud or virtual infrastructure. If you have basic knowledge of GNU/Linux and storage systems, with no experience of software defined storage solutions and Ceph, but eager to learn then this book is for you What You Will Learn Understand, install, configure, and manage the Ceph storage system Get to grips with performance tuning and

benchmarking, and learn practical tips to help run Ceph in production Integrate Ceph with OpenStack Cinder, Glance, and Nova components Deep dive into Ceph object storage, including S3, Swift, and Keystone integration Configure a disaster recovery solution with a Ceph Multi-Site V2 gateway setup and RADOS Block Device mirroring Gain hands-on experience with Ceph Metrics and VSM for cluster monitoring Familiarize yourself with Ceph operations such as maintenance, monitoring, and troubleshooting Understand advanced topics including erasure-coding, CRUSH map, cache pool, and general Ceph cluster maintenance In Detail Ceph is a unified distributed storage system designed for reliability and scalability. This technology has been transforming the software-defined storage industry and is evolving rapidly as a leader with its wide range of support for popular cloud platforms such as OpenStack, and CloudStack, and also for virtualized platforms. Ceph is backed by Red Hat and has been developed by community of developers which has gained immense traction in recent years. This book will guide you right from the basics of Ceph , such as creating blocks, object storage, and filesystem access, to advanced concepts such as cloud integration solutions. The book will also cover practical and easy to implement recipes on CephFS, RGW, and RBD with respect to the major stable release of Ceph Jewel. Towards the end of the book, recipes based on troubleshooting and best practices will help you get to grips with managing Ceph storage in a production environment. By the end of this book, you will have practical, hands-on experience of using Ceph efficiently for your storage requirements. Style and approach This step-by-step guide is filled with practical tutorials, making complex scenarios easy to understand.

Mastering Windows Server 2016 Jordan Krause.2016-10-25 A comprehensive and practical guide to Windows Server 2016 About This Book In-depth coverage of new features of Windows Server 2016 Gain the necessary skills and knowledge to design and implement Microsoft Server 2016 in enterprise environment Know how you can support your medium to large enterprise and leverage your experience in administering Microsoft Server 2016, A practical guide to administering Windows server 2016 Who This Book Is For The book is targeted at System Administrators and IT professionals who would like to design and deploy Windows Server 2016 (physical and logical) Enterprise infrastructure. Previous experience of Windows Server operating systems and familiarity with networking concepts is assumed. System administrators who are upgrading or migrating to Windows Server 2016 would also find this book useful. What You Will Learn Familiarize yourself with Windows Server 2016 ideology, the core of most datacenters running today New functions and benefits provided only by the new Windows Server 2016 Get comfortable working with Nanoserver Secure your network with new technologies in Server 2016 Harden your Windows Servers to help keep those bad guys out! Using new built-in integration for Docker with this latest release of Windows Server 2016 Virtualize your datacenter with Hyper-V In Detail Windows Server 2016 is the server operating system developed by Microsoft as part of the Windows NT family of operating systems, developed concurrently with Windows 10. With Windows Server 2016, Microsoft has gotten us thinking outside of the box for what it means to be a system administration, and comes with some interesting new capabilities. These are exciting times to be or to become a server administrator! This book covers all aspects of administration level tasks and activities required to gain expertise in Microsoft Windows Server 2016. You will begin by getting familiar and comfortable navigating around in the interface. Next, you will learn to install and manage Windows Server 2016 and discover some tips for adapting to the new server management ideology that is all about centralized monitoring and configuration. You will deep dive into core Microsoft infrastructure technologies that the majority of companies are going to run on Server 2016. Core technologies such as Active Directory, DNS, DHCP, Certificate Services, File Services, and more. We will talk about networking in this new operating system, giving you a networking toolset that is useful for everyday troubleshooting and maintenance. Also discussed is the idea of Software Defined Networking. You will later walk through different aspects of certificate administration in Windows Server 2016. Three important and crucial areas to cover in the Remote Access role -- DirectAccess, VPN, and the Web Application Proxy -- are also covered. You will then move into security functions and benefits that are available in Windows Server 2016. Also covered is the brand new and all-important Nano Server!

We will incorporate PowerShell as a central platform for performing many of the functions that are discussed in this book, including a chapter dedicated to the new PowerShell 5.0. Additionally, you will learn about the new built-in integration for Docker with this latest release of Windows Server 2016. The book ends with a discussion and information on virtualizing your datacenter with Hyper-V. By the end of this book, you will have all the ammunition required to start planning for and implementing Windows Server 2016. Style and approach This book offers a practical and wide coverage of all features of brand new Microsoft Server 2016 along with tips on daily administration tasks.

Linux Administration Cookbook Adam K. Dean.2018-12-31 Over 100 recipes to get up and running with the modern Linux administration ecosystem Key FeaturesUnderstand and implement the core system administration tasks in LinuxDiscover tools and techniques to troubleshoot your Linux systemMaintain a healthy system with good security and backup practicesBook Description Linux is one of the most widely used operating systems among system administrators,and even modern application and server development is heavily reliant on the Linux platform. The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. It will help you understand what that strange little server is doing in the corner of your office, what the mysterious virtual machine languishing in Azure is crunching through, what that circuit-board-like thing is doing under your office TV, and why the LEDs on it are blinking rapidly. This book will get you started with administering Linux, giving you the knowledge and tools you need to troubleshoot day-to-day problems, ranging from a Raspberry Pi to a server in Azure, while giving you a good understanding of the fundamentals of how GNU/Linux works. Through the course of the book, you'll install and configure a system, while the author regales you with errors and anecdotes from his vast experience as a data center hardware engineer, systems administrator, and DevOps consultant. By the end of the book, you will have gained practical knowledge of Linux, which will serve as a bedrock for learning Linux administration and aid you in your Linux journey. What you will learnInstall and manage a Linux server, both locally and in the cloudUnderstand how to perform administration across all Linux distrosWork through evolving concepts such as IaaS versus PaaS, containers, and automationExplore security and configuration best practicesTroubleshoot your system if something goes wrongDiscover and mitigate hardware issues, such as faulty memory and failing drivesWho this book is for If you are a system engineer or system administrator with basic experience of working with Linux, this book is for you.

Achieving DevOps Dave Harrison,Knox Lively.2019-05-22 Ben is stuck. A development lead with a strong vision for how the intersection of development and operations at his office can be improved, he can't help but feel overwhelmed and discouraged by common problems such as slow turnaround time, rushed and ineffective handover documentation, mounting technical debt, and a lagging QA process. What steps should Ben take to build the momentum needed to create positive changes within his company? In this unique business novel by Dave Harrison and Knox Lively, two DevOps professionals with years of diverse experience in the industry, you follow Ben as he solves work frustrations in order to adopt Agile, DevOps, and microservices architectures for his organization. *Achieving DevOps* addresses the "Now what?" moment many DevOps professionals face on their journey. The story provides you with the knowledge you need to navigate the internal political waters, build management support, show measurable results, and bring DevOps successfully into your organization. Come away with practical lessons and timeless business concepts. You'll know how to effect change in a company from the bottom up, gain support, and instill a pattern of progressively building on success. Experience Ben's progress vicariously in *Achieving DevOps* and bridge the gap between inspiration and the implementation of your own DevOps practices. Who This Book Is For Those serving as change agents who are working to influence and move their organizations toward a DevOps approach to software development and deployment: those working to effect change from the bottom up such as development leads, QA leads, project managers, and individual developers; and IT directors, CTOs, and others at the top of an organization who are being asked to lend their support toward DevOps implementation efforts

Software Evolution Tom Mens,Serge Demeyer.2008-01-25 This book focuses on novel trends in software evolution research and its relations with other emerging disciplines. Mens and Demeyer, both authorities in the field of software evolution, do not restrict themselves to the evolution of source code but also address the evolution of other, equally important software artifacts. This book is the indispensable source for researchers and professionals looking for an introduction and comprehensive overview of the state-of-the-art.

A Practical Guide to Azure DevOps Milindanath Hewage.2020-02-16 DevOps has become a major topic for developers, testers, project managers and many others involved in building software products. Microsoft has introduced Azure DevOps as their tool for implementing DevOps practices. This book is intended to provide the reader a step-by-step, easy to follow guide to learn how Azure DevOps works in a real world project using detailed samples and visual guidance through screenshots. Therefore, the approach taken in this book is very simple and allows even beginners to follow along and get a good understanding on Azure DevOps. Rather than explaining detailed technical information, this book mainly focuses on the practical aspect of how someone new to Azure DevOps can easily get started with it. Therefore, you will see theoretical explanations only when needed to explain a certain scenario. The main focus is to complete a specific task using Azure DevOps. Following areas are discussed in this edition of the book. Azure DevOps organization and settings Creating a project and its settings Azure Boards explained using Basic work item process Azure Repos explained using a simple node application Automate the build, test and deployment process using CI/CD pipelines Who this book is intended for? This book will be a useful handbook for developers, project managers, release managers, stakeholders, testers who are beginners to Azure DevOps and are not interested in reading detailed technical descriptions but rather would like to learn things by doing. Even advanced users of Azure DevOps can benefit from this book.

Windows Server 2019 Cookbook - Second Edition Mark Henderson,Jordan Krause.2020 Efficiently manage and administer enterprise environments using Microsoft Windows Server 2019 Key Features Leverage Windows Server 2019 to improve enterprise workflow efficiency and increase productivity Deliver enterprise-grade cloud services that can be applied in your infrastructure Get up and running with PowerShell and the all-new Hyper-V improvements Book Description Do you want to get up and running with essential administrative tasks in Windows Server 2019? This second edition of the Windows Server 2019 Cookbook is packed with practical recipes that will help you do just that. The book starts by taking you through the basics that you need to know to get a Windows Server operating system working, before teaching you how to navigate through daily tasks using the upgraded graphical user interface (GUI). You'll then learn how to compose an optimal Group Policy and perform task automation with PowerShell scripting. As you advance, you'll get to grips with faster app innovation, improved Windows security measures, and hybrid cloud environments. After you've explored the functions available to provide remote network access to your users, you'll cover the new Hyper-V enhancements. Finally, this Windows Server book will guide you through practical recipes relating to Azure integration and important tips for how to manage a Windows Server environment seamlessly. By the end of this book, you'll be well-versed with Windows Server 2019 essentials and have the skills you need to configure Windows services and implement best practices for securing a Windows Server environment. What you will learn Get up and running with Windows Server 2019's new features Install, configure, and administer Windows Server 2019 effectively Configure the server to host any enterprise application Discover ways to manage a server without a GUI Safeguard your virtual machines in the event of server failure Explore new ways to integrate Windows Server with Microsoft Azure Deploy Windows containers using Docker Who this book is for This Windows Server 2019 book is for system administrators and IT professionals who have basic experience in Windows environments and are interested in acquiring the skills and knowledge needed to manage and maintain the core infrastructure required for a Windows Server 2019 environment.

[SQL Server 2017 Integration Services Cookbook](#) Christian Cote,Matija Lah,Dejan Sarka.2017-06-30 Harness the power of SQL Server 2017 Integration Services to build your data integration solutions

with ease About This Book Acquaint yourself with all the newly introduced features in SQL Server 2017 Integration Services Program and extend your packages to enhance their functionality This detailed, step-by-step guide covers everything you need to develop efficient data integration and data transformation solutions for your organization Who This Book Is For This book is ideal for software engineers, DW/ETL architects, and ETL developers who need to create a new, or enhance an existing, ETL implementation with SQL Server 2017 Integration Services. This book would also be good for individuals who develop ETL solutions that use SSIS and are keen to learn the new features and capabilities in SSIS 2017. What You Will Learn Understand the key components of an ETL solution using SQL Server 2016-2017 Integration Services Design the architecture of a modern ETL solution Have a good knowledge of the new capabilities and features added to Integration Services Implement ETL solutions using Integration Services for both on-premises and Azure data Improve the performance and scalability of an ETL solution Enhance the ETL solution using a custom framework Be able to work on the ETL solution with many other developers and have common design paradigms or techniques Effectively use scripting to solve complex data issues In Detail SQL Server Integration Services is a tool that facilitates data extraction, consolidation, and loading options (ETL), SQL Server coding enhancements, data warehousing, and customizations. With the help of the recipes in this book, you'll gain complete hands-on experience of SSIS 2017 as well as the 2016 new features, design and development improvements including SCD, Tuning, and Customizations. At the start, you'll learn to install and set up SSIS as well other SQL Server resources to make optimal use of this Business Intelligence tools. We'll begin by taking you through the new features in SSIS 2016/2017 and implementing the necessary features to get a modern scalable ETL solution that fits the modern data warehouse. Through the course of chapters, you will learn how to design and build SSIS data warehouses packages using SQL Server Data Tools. Additionally, you'll learn to develop SSIS packages designed to maintain a data warehouse using the Data Flow and other control flow tasks. You'll also be demonstrated many recipes on cleansing data and how to get the end result after applying different transformations. Some real-world scenarios that you might face are also covered and how to handle various issues that you might face when designing your packages. At the end of this book, you'll get to know all the key concepts to perform data integration and transformation. You'll have explored on-premises Big Data integration processes to create a classic data warehouse, and will know how to extend the toolbox with custom tasks and transforms. Style and approach This cookbook follows a problem-solution approach and tackles all kinds of data integration scenarios by using the capabilities of SQL Server 2016 Integration Services. This book is well supplemented with screenshots, tips, and tricks. Each recipe focuses on a particular task and is written in a very easy-to-follow manner.

Implementing Azure DevOps Solutions Henry Been, Maik van der Gaag. 2020-06-11 A comprehensive guide to becoming a skilled Azure DevOps engineer Key Features Explore a step-by-step approach to designing and creating a successful DevOps environment Understand how to implement continuous integration and continuous deployment pipelines on Azure Integrate and implement security, compliance, containers, and databases in your DevOps strategies Book Description Implementing Azure DevOps Solutions helps DevOps engineers and administrators to leverage Azure DevOps Services to master practices such as continuous integration and continuous delivery (CI/CD), containerization, and zero downtime deployments. This book starts with the basics of continuous integration, continuous delivery, and automated deployments. You will then learn how to apply configuration management and Infrastructure as Code (IaC) along with managing databases in DevOps scenarios. Next, you will delve into fitting security and compliance with DevOps. As you advance, you will explore how to instrument applications, and gather metrics to understand application usage and user behavior. The latter part of this book will help you implement a container build strategy and manage Azure Kubernetes Services. Lastly, you will understand how to create your own Azure DevOps organization, along with covering quick tips and tricks to confidently apply effective DevOps practices. By the end of this book, you'll have gained the knowledge you need to ensure seamless application deployments and business continuity. What you will learn Get

acquainted with Azure DevOps Services and DevOps practices Implement CI/CD processes Build and deploy a CI/CD pipeline with automated testing on Azure Integrate security and compliance in pipelines Understand and implement Azure Container Services Become well versed in closing the loop from production back to development Who this book is for This DevOps book is for software developers and operations specialists interested in implementing DevOps practices for the Azure cloud. Application developers and IT professionals with some experience in software development and development practices will also find this book useful. Some familiarity with Azure DevOps basics is an added advantage.

Learning DevOps Mikael Krief. 2022-04-07 Implement modern DevOps techniques to increase business productivity, agility, reliability, security, and scalability Key Features: Learn how to use business resources effectively for improved productivity and collaboration Use infrastructure as code practices to build large-scale cloud infrastructure Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Book Description: In the implementation of DevOps processes, the choice of tools is crucial to the sustainability of projects and collaboration between developers and ops. This book presents the different patterns and tools for provisioning and configuring an infrastructure in the cloud, covering mostly open source tools with a large community contribution, such as Terraform, Ansible, and Packer, which are assets for automation. This DevOps book will show you how to containerize your applications with Docker and Kubernetes and walk you through the construction of DevOps pipelines in Jenkins as well as Azure pipelines before covering the tools and importance of testing. You'll find a complete chapter on DevOps practices and tooling for open source projects before getting to grips with security integration in DevOps using Inspec, Hashicorp Vault, and Azure Secure DevOps kit. You'll also learn about the reduction of downtime with blue-green deployment and feature flags techniques before finally covering common DevOps best practices for all your projects. By the end of this book, you'll have built a solid foundation in DevOps and developed the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques. What You Will Learn: Understand the basics of infrastructure as code patterns and practices Get an overview of Git command and Git flow Install and write Packer, Terraform, and Ansible code for provisioning and configuring cloud infrastructure based on Azure examples Use Vagrant to create a local development environment Containerize applications with Docker and Kubernetes Apply DevSecOps for testing compliance and securing DevOps infrastructure Build DevOps CI/CD pipelines with Jenkins, Azure Pipelines, and GitLab CI Explore blue-green deployment and DevOps practices for open sources projects Who this book is for: If you are an application developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you. Knowledge of DevOps fundamentals and Git principles is required.

Engineering DevOps Marc Hornbeek. 2019-12-06 This book is an engineering reference manual that explains How to do DevOps?. It is targeted to people and organizations that are doing DevOps but not satisfied with the results that they are getting. There are plenty of books that describe different aspects of DevOps and customer user stories, but up until now there has not been a book that frames DevOps as an engineering problem with a step-by-step engineering solution and a clear list of recommended engineering practices to guide implementors. The step-by-step engineering prescriptions can be followed by leaders and practitioners to understand, assess, define, implement, operationalize, and evolve DevOps for their organization. The book provides a unique collection of engineering practices and solutions for DevOps. By confining the scope of the content of the book to the level of engineering practices, the content is applicable to the widest possible range of implementations. This book was born out of the author's desire to help others do DevOps, combined with a burning personal frustration. The frustration comes from hearing leaders and practitioners say, We think we are doing DevOps, but we are not getting the business results we had expected. Engineering DevOps describes a strategic approach, applies engineering implementation discipline, and focuses operational expertise to define and accomplish specific goals for each leg of an

organization's unique DevOps journey. This book guides the reader through a journey from defining an engineering strategy for DevOps to implementing The Three Ways of DevOps maturity using engineering practices: The First Way (called Continuous Flow) to The Second Way (called Continuous Feedback) and finally The Third Way (called Continuous Improvement). This book is intended to be a guide that will continue to be relevant over time as your specific DevOps and DevOps more generally evolves.

Microsoft Dynamics 365 Extensions Cookbook Rami Mounla.2017-06-07 More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily About This Book Customize, configure, and extend the vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365 Built a DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms Who This Book Is For This book is for developers, administrators, consultants, and power users who want to learn about best practices when extending Dynamics 365 for enterprises. You are expected to have a basic understand of the Dynamics CRM/365 platform. What You Will Learn Customize, configure, and extend Microsoft Dynamics 365 Create business process automation Develop client-side extensions to add features to the Dynamics 365 user interface Set up a security model to securely manage data with Dynamics 365 Develop and deploy clean code plugins to implement a wide range of custom behaviors Use third-party applications, tools, and patterns to integrate Dynamics 365 with other platforms Integrate with Azure, Java, SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365 In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower organisations to bridge common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start this book with a no-code configuration chapter and explain the schema, fields, and forms modeling techniques. We then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics 365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of design patterns and techniques that can be used to enhance your code quality; the aim is that you will learn to write enterprise-scale quality code. Style and approach This book takes a recipe-based approach, delivering practical examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment and tackle your specific business problems.

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 FeaturesImprove your application development life cycle with Azure DevOps in a step-by-step mannerApply continuous integration and continuous deployment to reduce application downtimeWork with real-world CI/CD scenarios curated by a team of renowned Microsoft MVPs and MCTsBook 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

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NGINX Cookbook Derek DeJonghe. 2017

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