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Based on newest version of Visual Studio .NET (2005) and .NET Framework version 2.0 All topic areas include specific code examples Bridges the gap between classic C++ and Visual C++ .NET Update of a highly successful first edition Vue.js is a front-end framework that builds on many of the reactive UI ideas introduced in React.js. Vue.js in Action teaches readers to build fast, flowing web UI with the Vue.js framework. As they move through the book, readers put their skills to practice by building a complete web store application with product listings, a checkout process, and an administrative interface! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Successfully execute a strategic roadmap of digital transformation and modernize your enterprise with a proven API-led agile implementation approach by unlocking the full range of features in IBM API Connect Version 10 Key FeaturesExplore techniques to design and deliver valuable customer-centric APIs using API ConnectManage your APIs with improved security and optimal performance across many channelsUncover hidden capabilities that help improve business agility and management within your API ecosystemBook Description IBM API Connect enables organizations to drive digital innovation using its scalable and robust API management capabilities across multi-cloud and hybrid environments. With API Connect's security, flexibility, and high performance, you'll be able to meet the needs of your enterprise and clients by extending your API footprint. This book provides a complete roadmap to create, manage, govern, and publish your APIs. You'll start by learning about API Connect components, such as API managers, developer portals, gateways, and analytics subsystems, as well as the management capabilities provided by CLI commands. You'll then develop APIs using OpenAPI and discover how you can enhance them with logic policies. The book shows you how to modernize SOAP and FHIR REST services as secure APIs with authentication, OAuth2/OpenID, and JWT, and demonstrates how API Connect provides safeguards for GraphQL APIs as well as published APIs that are easy to discover and well documented. As you advance, the book guides you in generating unit tests that supplement DevOps pipelines using Git and Jenkins for improved agility, and concludes with best practices for implementing API governance and customizing API Connect components. By the end of this book, you'll have learned how to transform your business by speeding up the time-to-market of your products and increase the ROI for your enterprise. What you will learnUse API Connect to create, manage, and

publish customer-centric, API-led solutionsRun CLI commands to manage API configuration and deploymentsCreate REST, SOAP, and GraphQL APIs securely using OpenAPISupport OAuth and JWT security methods using policiesCreate custom policies to supplement securityApply built-in policies to transform payloadsUse CLIs and unit testing hooks within DevOps pipelinesFind out how to customize Analytics dashboards and Portal User InterfaceWho this book is for This book is for developers and architects who want to achieve digital transformation using IBM API Connect and successfully execute the strategic roadmap of enterprise modernization while effectively managing their API ecosystem. A solid understanding of what RESTful services and APIs can do and where to implement API security is necessary to get started. Experience in application development and basic knowledge of microservices, container orchestration, and cloud environments will help you to get the most out of this book. Build and deliver production-grade cloud-native apps with Spring framework and Kubernetes. In Cloud Native Spring in Action you'll learn: Cloud native best practices and design patterns Build and test cloud native apps with Spring Boot and Spring Cloud Handle security, resilience, and scalability in imperative and reactive applications Configure, deploy, and observe applications on Kubernetes Continuous delivery and GitOps to streamline your software lifecycle Cloud Native Spring in Action is a practical guide to building applications that are designed for cloud environments. You'll learn effective Spring and Kubernetes cloud development techniques that you can immediately apply to enterprise-grade applications. Follow a detailed and complete cloud native system from first concept right through to production and deployment, learning best practices, design patterns, and little-known tips and tricks for pain-free cloud native development. Including coverage of security, continuous delivery, and configuration, this hands-on guide is the perfect primer for navigating the increasingly complex cloud landscape. About the technology Do you want to learn how to build scalable, resilient, and observable Spring applications that take full advantage of the cloud computing model? If so, Cloud Native Spring in Action is the book for you! It will teach you the essential techniques and practices you need to build efficient Spring Boot applications ready for production in the cloud. About the book In Cloud Native Spring in Action, you'll learn how to containerize your Spring Boot applications with Cloud Native Buildpacks and deploy them on Kubernetes. This practical guide delivers unique insights into hosting microservices, serverless applications, and other modern architectures on cloud platforms. You'll learn how to use Spring-based methodologies, practices, and patterns that you won't find anywhere else. What's inside Implement cloud native patterns with Spring Handle security, resilience, and scalability Build and test imperative and reactive applications Configuration and observability on Kubernetes Adopt continuous delivery and GitOps About the reader For intermediate Java developers. About the author Thomas Vitale is a software engineer, open source contributor, and international conference speaker. Table of Contents PART 1 CLOUD NATIVE FUNDAMENTALS 1 Introduction to cloud native 2 Cloud native patterns and technologies PART 2 CLOUD NATIVE DEVELOPMENT 3 Getting started with cloud native development 4 Externalized configuration management 5 Persisting and managing data in the cloud 6 Containerizing Spring Boot 7 Kubernetes fundamentals for Spring Boot PART 3 CLOUD NATIVE DISTRIBUTED SYSTEMS 8 Reactive Spring: Resilience and scalability 9 API gateway and circuit breakers 10 Event-driven applications and functions 11 Security: Authentication and SPA 12 Security: Authorization and auditing For several consecutive years, Rust has been voted "most loved programming language" in Stack Overflow's annual developer survey. This open source systems programming language is now used for everything from game engines and operating systems to browser components and virtual reality simulation engines. But Rust is also an incredibly complex language with a notoriously difficult learning curve. Rather than focusing on the language as a whole, this guide teaches Rust using a single small, complete, focused program in each chapter. Author Ken Youens-

Clark shows you how to start, write, and test each of these programs to create a finished product. You'll learn how to handle errors in Rust, read and write files, and use regular expressions, Rust types, structs, and more. Discover how to: Use Rust's standard libraries and data types such as numbers, strings, vectors, structs, Options, and Results to create command-line programs Write and test Rust programs and functions Read and write files, including stdin, stdout, and stderr Document and validate command-line arguments Write programs that fail gracefully Parse raw and delimited text manually, using regular expressions and Rust crates Use and control randomness Motif Tools is a complete programmer's guide and reference manual for the Xmt library. The book, and the Xmt programming library that accompanies it on CD-ROM, are intended to empower Motif programmers and dramatically speed up application development with the X Toolkit and Motif. Whether you want to automate tasks, analyze data, parse logs, talk to network services, or address other systems requirements, writing your own command-line tool may be the fastest - and perhaps the most fun - way to do it. The Go programming language is a great choice for developing tools that are fast, reliable, and cross-platform. Create command-line tools that work with files, connect to services, and even manage external processes, all while using tests and benchmarks to ensure your programs are fast and correct. When you want to develop cross platform command-line tools that are fast and reliable, use Go, a modern programming language that combines the reliability of compiled languages with the ease of use and flexibility of dynamic typed languages. Work through practical examples to develop elegant and efficient tools by applying Go's rich standard library, its built in support for concurrency, and its expressive syntax. Use Go's integrated testing capabilities to automatically test your tools, ensuring they work reliably even across code refactoring. Develop CLI tools that interact with your users by using common input/output patterns, including environment variables and flags. Handle files to read or persist data, and manipulate paths consistently in cross-platform scenarios. Control processes and handle signals, and use a benchmark driven approach and Go's concurrency primitives to create tools that perform well. Use powerful external libraries such as Cobra to create modern and flexible tools that handle subcommands, and develop tools that interact with databases, APIs, and network services. Finally, leverage what you learned by tackling additional challenges at the end of each chapter. What You Need: Go 1.8 or higher, an internet connection to download the example files and additional libraries, and a text editor to write your programs. In LexisNexis Practice Guide New Jersey Personal Injury Litigation, General Editors Barry A. Knopf and Audra DePaolo have assembled a distinguished group of expert authors to provide in-depth procedural and substantive coverage of the causes of action central to New Jersey personal injury practice. Combining a task-based, procedural style with substantive analysis, and practical insight based on years of practice experience, LexisNexis Practice Guide New Jersey Personal Injury Litigation is a unique source for the attorney unfamiliar with the practice area, the associate in need of an authoritative source, or the solo or small law firm practitioner needing reliable guidance in managing a personal injury case from the initial interview through trial. Our distinguished authors and their areas of coverage include the following: Barry A. Knopf, Audra DePaolo; Cohn Lifland Pearlman Herrmann & Knopf • Medical Malpractice Anthony M. Carlino; McElroy Deutsch Mulvaney & Carpenter • Motor Vehicle Negligence William C. Carey; McElroy Deutsch Mulvaney & Carpenter • Premises Liability Nancy McDonald; McElroy Deutsch, Mulvaney & Carpenter • Toxic Torts Diana C. Manning; Mark M. Tallmadge; Bressler, Amery & Ross • Product Liability Diana C. Manning; Bressler, Amery & Ross • Professional Liability Lawrence M. Simon; Law Offices of Lawrence M. Simon • Governmental Liability Each Practice Guide chapter combines authoritative legal analysis with expert authors' practical insights that have been distilled from years of practice experience. LexisNexis Practice Guide New Jersey Personal Injury Litigation includes more than 150 Practice Tips--Strategic

Point, Warning, Timing, and Exception (with easy-to-recognize icons)--that transition smoothly from legal analysis to practical application of a point of law. LexisNexis Practice Guide New Jersey Personal Injury Litigation includes more than 100 forms references in checklists and in chapter text. This guide to using Clarion Professional Developer, the acclaimed database programming environment for the IBM PC, will provide database developers and experienced Clarion users with the best and quickest methods for producing polished, useful applications. Provides information on using the ticketing system Request Tracker. 113915 You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to:

- \* Create and delete files, directories, and symlinks
- \* Administer your system, including networking, package installation, and process management
- \* Use standard input and output, redirection, and pipelines
- \* Edit files with Vi, the world's most popular text editor
- \* Write shell scripts to automate common or boring tasks
- \* Slice and dice text files with cut, paste, grep, patch, and sed

Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin" Summary A developer-focused guide to writing applications using Spring Boot. You'll learn how to bypass the tedious configuration steps so that you can concentrate on your application's behavior. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Spring Framework simplifies enterprise Java development, but it does require lots of tedious configuration work. Spring Boot radically streamlines spinning up a Spring application. You get automatic configuration and a model with established conventions for build-time and runtime dependencies. You also get a handy command-line interface you can use to write scripts in Groovy. Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications. About the Book Spring Boot in Action is a developer-focused guide to writing applications using Spring Boot. In it, you'll learn how to bypass configuration steps so you can focus on your application's behavior. Spring expert Craig Walls uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment. Along the way, you'll pick up insights from Craig's years of Spring development experience. What's Inside Develop Spring apps more efficiently Minimal to no configuration Runtime metrics with the Actuator Covers Spring Boot 1.3 About the Reader Written for readers familiar with the Spring Framework. About the Author Craig Walls is a software developer, author of the popular book Spring in Action, Fourth Edition, and a frequent speaker at conferences. Table of Contents Bootstarting Spring Developing your first Spring Boot application Customizing configuration Testing with Spring Boot Getting Groovy with the Spring Boot CLI Applying Grails in Spring Boot Taking a peek inside with the Actuator Deploying Spring Boot applications APPENDIXES Spring Boot developer tools Spring Boot starters Configuration properties Spring Boot dependencies Cisco CCIE Routing and Switching v5.0 Configuration Practice Labs presents you with three full configuration lab scenarios in exam style format to echo the real CCIE Routing and Switching v5.0 lab exam. This publication gives you the opportunity to put into practice your own extensive theoretical knowledge of

subjects to find out how they interact with each other on a larger complex scale. An "Ask the Proctor" section list of questions for each section helps provide clarity and maintain direction to ensure that you do not give up and check the answers directly if you find a task too challenging. After each lab, this eBook lets you compare configurations and routing tables with the required answers. You also can run through a lab de-brief, view configurations, and cut and paste configs into your own lab equipment for testing and verification. The point scoring for each question lets you know whether you passed or failed each lab. This extensive set of practice labs that sell for hundreds of dollars elsewhere helps you make sure you are fully prepared for the grueling CCIE lab exam experience. Get a solid grounding in Apache Oozie, the workflow scheduler system for managing Hadoop jobs. With this hands-on guide, two experienced Hadoop practitioners walk you through the intricacies of this powerful and flexible platform, with numerous examples and real-world use cases. Once you set up your Oozie server, you'll dive into techniques for writing and coordinating workflows, and learn how to write complex data pipelines. Advanced topics show you how to handle shared libraries in Oozie, as well as how to implement and manage Oozie's security capabilities. Install and configure an Oozie server, and get an overview of basic concepts Journey through the world of writing and configuring workflows Learn how the Oozie coordinator schedules and executes workflows based on triggers Understand how Oozie manages data dependencies Use Oozie bundles to package several coordinator apps into a data pipeline Learn about security features and shared library management Implement custom extensions and write your own EL functions and actions Debug workflows and manage Oozie's operational details Summary Apache Cordova in Action teaches you to create and launch hybrid mobile apps using Cordova or Phonegap. By following carefully selected examples, step-by-step tutorials, and crystal-clear explanations, you'll learn to build apps from the Cordova CLI, how to make use of device features like the camera and accelerometer, how to submit your apps to Google Play and the Apple App Store, and more. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Developing a mobile app requires extensive knowledge of native programming techniques for multiple platforms. Apache Cordova lets you use your existing skills in web development (HTML, CSS, and JavaScript) to build powerful mobile apps. Your apps also get the power of integration with native device features like the camera and file system. Apache Cordova in Action teaches you how to design, create, and launch hybrid mobile apps people will want to use. With the help of straightforward, real-world examples, you'll learn to build apps from the Cordova CLI and to make use of native device features like the camera and accelerometer. You'll learn testing techniques and discover the PhoneGap Build service and how to submit your apps to Google Play and the Apple App Store. Along the way, this helpful guide discusses mobile app design and shows you how to create effective, professional-quality UI and UX. What's Inside Build mobile apps UI, UX, and testing techniques Deploy to Google Play and the Apple App Store Employ libraries like Bootstrap, jQuery Mobile, and Ionic About the Reader Readers should be familiar with HTML, CSS, and JavaScript. No experience with mobile app development needed. About the Author Raymond Camden is a developer advocate for IBM. He is passionate about mobile development and has spoken at conferences worldwide. The Table of Contents PART 1 GETTING STARTED WITH APACHE CORDOVA What is Cordova? Installing Cordova and the Android SDK PART 2 CORE CONCEPTS Creating Cordova projects Using plugins to access device features Mobile design and user experience Considerations when building mobile apps Tools for debugging Cordova and other hybrid apps Creating custom plugins Packing options for Cordova projects Using PhoneGap tools PART 3 APPLICATION RELEASE Submitting your app Building an RSS reader app with Ionic CLI, a young feral horse from the queen of hill stations, Ooty, always thought the grass was greener on the other side of the hill and dreamt of sweet beet pulp and wheat middlings served in the royal stable at Mysooru. His dream

of joining the palace stable almost comes to an end when he confronts one of the world's most notorious forest brigands, Meese Muniswamy Beerappan. The miracles of life that he witnesses cruising through the South Indian Madumalai reserve, a veritable treasure trove of wildlife, leaves him bemused. While the animals and birds offer him company through his journey, his wish to join the stable turns out to be a mere chimera. CLI the colt is a breathtaking action packed venture tale woven around the cultural capital Mysooru using the strands of fantasy, true historical and animal facts. Summary Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Kubernetes is Greek for "helmsman," your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server infrastructure into your designs. About the Book Kubernetes in Action teaches you to use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying containers across a cluster Securing clusters Updating applications with zero downtime About the Reader Written for intermediate software developers with little or no familiarity with Docker or container orchestration systems. About the Author Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift. Table of Contents PART 1 - OVERVIEW Introducing Kubernetes First steps with Docker and Kubernetes PART 2 - CORE CONCEPTS Pods: running containers in Kubernetes Replication and other controllers: deploying managed pods Services: enabling clients to discover and talk to pods Volumes: attaching disk storage to containers ConfigMaps and Secrets: configuring applications Accessing pod metadata and other resources from applications Deployments: updating applications declaratively StatefulSets: deploying replicated stateful applications PART 3 - BEYOND THE BASICS Understanding Kubernetes internals Securing the Kubernetes API server Securing cluster nodes and the network Managing pods' computational resources Automatic scaling of pods and cluster nodes Advanced scheduling Best practices for developing apps Extending Kubernetes The purpose of this book is to show you the basics of the C++/CLI language. This book can be used as a handy desktop reference, so that if readers have a question about how, say, an array is declared or how a ref class behaves, they can easily refer to this book.· Introducing And Installing J2EE 1.4· Understanding Web Applications· Working With JSP 2.0· Using The JSTL· Using Custom Actions In JSP 2.0· Working With Servlets· Using Advanced Servlet Features· Handling Security In The Web Tier· Building The Best Application You Can· Using Session Beans· Introducing Entity Beans And Persistence· Introducing Messaging· Using EJB Container Services· Processing XML Documents· Introducing Enterprise Java Web Services· Managing Applications, Components And Resources· Packaging And Deploying Your Applications Summary Nim is a multi-paradigm language that offers powerful customization options with the ability to compile to everything from C to JavaScript. In Nim in Action you'll learn how Nim compares to other languages in style and performance, master its structure and syntax, and discover unique features. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Nim is a multi-paradigm programming language that offers powerful

customization options with the ability to compile to everything from C to JavaScript. It can be used in any project and illustrates that you don't have to sacrifice performance for expressiveness! About the Book Nim in Action is your guide to application development in Nim. You'll learn how Nim compares to other languages in style and performance, master its structure and syntax, and discover unique features. By carefully walking through a Twitter clone and other real-world examples, you'll see just how Nim can be used every day while also learning how to tackle concurrency, package finished applications, and interface with other languages. With the best practices and rich examples in this book, you'll be able to start using Nim today. What's Inside Language features and implementation Nimble package manager Asynchronous I/O Interfacing with C and JavaScript Metaprogramming About the Reader For developers comfortable with mainstream languages like Java, Python, C++ or C#. About the Author Dominik Picheta is one of the principal developers of Nim and author of the Nimble package manager. Summary PART 1 -THE BASICS OF NIM Why Nim? Getting started PART 2 - NIM IN PRACTICE 3 Writing a chat application 4 A tour through the standard library 5 Package management 6 Parallelism 7 Building a Twitter clone PART 3 - ADVANCED CONCEPTS 8 Interfacing with other languages 9 Metaprogramming Simple packet filters are becoming a thing of the past. Even the open-source domain is moving towards Next-Generation Firewalls. OPNsense is a top player when it comes to intrusion detection, application control, web filtering, and Antivirus. No network is too insignificant to be spared by an attacker. Even home networks, washing machines, and smartwatches are under threat and require a secure environment. Firewalls are a component of the security concept. They protect against known and emerging threats to computers and networks. A firewall offers the highest level of protection if its functions are known, its operation is simple, and it is ideally positioned in the surrounding infrastructure. OPNsense accepts the challenge and meets these criteria in a number of ways. This book is the ideal companion for understanding, installing, and setting up an OPNsense firewall. Each chapter explains a real-world situation, describes the theoretical fundamentals, and presents a lab experiment for better understanding. Finally, it offers a solution using OPNsense methods and knowledge with a technical standpoint. The chapters are mostly independent of each other, however, they do increase in competency level. The topics covered are appropriate for beginners and professionals. Create and manage highly-secure Ipsec VPNs with IKEv2 and Cisco FlexVPN The IKEv2 protocol significantly improves VPN security, and Cisco's FlexVPN offers a unified paradigm and command line interface for taking full advantage of it. Simple and modular, FlexVPN relies extensively on tunnel interfaces while maximizing compatibility with legacy VPNs. Now, two Cisco network security experts offer a complete, easy-to-understand, and practical introduction to IKEv2, modern IPsec VPNs, and FlexVPN. The authors explain each key concept, and then guide you through all facets of FlexVPN planning, deployment, migration, configuration, administration, troubleshooting, and optimization. You'll discover how IKEv2 improves on IKEv1, master key IKEv2 features, and learn how to apply them with Cisco FlexVPN. IKEv2 IPsec Virtual Private Networks offers practical design examples for many common scenarios, addressing IPv4 and IPv6, servers, clients, NAT, pre-shared keys, resiliency, overhead, and more. If you're a network engineer, architect, security specialist, or VPN administrator, you'll find all the knowledge you need to protect your organization with IKEv2 and FlexVPN. Understand IKEv2 improvements: anti-DDoS cookies, configuration payloads, acknowledged responses, and more Implement modern secure VPNs with Cisco IOS and IOS-XE Plan and deploy IKEv2 in diverse real-world environments Configure IKEv2 proposals, policies, profiles, keyrings, and authorization Use advanced IKEv2 features, including SGT transportation and IKEv2 fragmentation Understand FlexVPN, its tunnel interface types, and IOS AAA infrastructure Implement FlexVPN Server with EAP authentication, pre-shared keys, and digital signatures Deploy, configure, and customize FlexVPN

clients Configure, manage, and troubleshoot the FlexVPN Load Balancer Improve FlexVPN resiliency with dynamic tunnel source, backup peers, and backup tunnels Monitor IPsec VPNs with AAA, SNMP, and Syslog Troubleshoot connectivity, tunnel creation, authentication, authorization, data encapsulation, data encryption, and overlay routing Calculate IPsec overhead and fragmentation Plan your IKEv2 migration: hardware, VPN technologies, routing, restrictions, capacity, PKI, authentication, availability, and more Build, test, and deploy code right from your GitHub repository by automating, customizing, and executing software development workflows with GitHub Actions Key Features Enhance your CI/CD and DevOps workflows using GitHub Actions Discover how to create custom GitHub Actions using Docker and JavaScript Get up and running with building a CI/CD pipeline effectively Book Description GitHub Actions is one of the most popular products that enables you to automate development tasks and improve your software development workflow. Automating Workflows with GitHub Actions uses real-world examples to help you automate everyday tasks and use your resources efficiently. This book takes a practical approach to helping you develop the skills needed to create complex YAML files to automate your daily tasks. You'll learn how to find and use existing workflows, allowing you to get started with GitHub Actions right away. Moving on, you'll discover complex concepts and practices such as self-hosted runners and writing workflow files that leverage other platforms such as Docker as well as programming languages such as Java and JavaScript. As you advance, you'll be able to write your own JavaScript, Docker, and composite run steps actions, and publish them in GitHub Marketplace! You'll also find instructions to migrate your existing CI/CD workflows into GitHub Actions from platforms like Travis CI and GitLab. Finally, you'll explore tools that'll help you stay informed of additions to GitHub Actions along with finding technical support and staying engaged with the community. By the end of this GitHub book, you'll have developed the skills and experience needed to build and maintain your own CI/CD pipeline using GitHub Actions. What you will learn Get to grips with the basics of GitHub and the YAML syntax Understand key concepts of GitHub Actions Find out how to write actions for JavaScript and Docker environments Discover how to create a self-hosted runner Migrate from other continuous integration and continuous delivery (CI/CD) platforms to GitHub Actions Collaborate with the GitHub Actions community and find technical help to navigate technical difficulties Publish your workflows in GitHub Marketplace Who this book is for This book is for anyone involved in the software development life cycle, for those looking to learn about GitHub Actions and what can be accomplished, and for those who want to develop a new skill to help them advance their software development career. If you are new to GitHub and GitHub Actions in general, then this book is for you. Basic knowledge of GitHub as a platform will help you to get the most out of this book. The ultimate guide to becoming proficient in Azure Bicep while having a better development experience and making your Infrastructure as Code seamless and error free Key Features Learn Azure Bicep from an official Microsoft trainer Master the authoring experience to make your Infrastructure as Code journey seamless Go beyond writing good templates with the help of advanced tips and tricks Book Description It's no secret that developers don't like using JSON files to declare their resources in Azure because of issues such as parameter duplication and not being able to use comments in templates. Azure Bicep helps resolve these issues, and this book will guide you, as a developer or DevOps engineer, to get the most out of the Bicep language. The book takes you on a journey from understanding Azure Resource Manager (ARM) templates and what their drawbacks are to how you can use Bicep to overcome them. You will get familiar with tools such as Visual Studio Code, the Bicep extension, the Azure CLI, PowerShell, Azure DevOps, and GitHub for writing reusable, maintainable templates. After that, you'll test the templates and deploy them to an Azure environment either from your own system or via a continuous integration and continuous delivery (CI/CD) pipeline. The book features a detailed



overview of all the Bicep features, when to use what, and how to write great templates that fit well into your existing pipelines or in a new one. The chapters progress from easy to advanced topics and every effort has been put into making them easy to follow with examples, all of which are accessible via GitHub. By the end of this book, you'll have developed a solid understanding of Azure Bicep and will be able to create, test, and deploy your resources locally or in your CI/CD pipelines.

What you will learn

- Get started with Azure Bicep and install the necessary tools
- Understand the details of how to define resources with Bicep
- Use modules to create templates for different teams in your company
- Optimize templates using expressions, conditions, and loops
- Make customizable templates using parameters, variables, and functions
- Deploy templates locally or from Azure DevOps or GitHub

Stay on top of your IaC with best practices and industry standards

Who this book is for

This book is for cloud engineers, developers, and DevOps engineers who are responsible for writing templates to deploy resources in Microsoft Azure and contributing to CI/CD pipelines. Professionals who want to get started with DevOps and Infrastructure as Code when it comes to working with Microsoft Azure will also benefit from reading this book. Readers are expected to have a basic understanding of CI/CD concepts, must have worked with ARM templates to deploy resources to Azure, and must have used or be familiar with Azure DevOps or GitHub Actions for their CI/CD pipelines.

System Design for Telecommunication Gateways provides a thorough review of designing telecommunication network equipment based on the latest hardware designs and software methods available on the market. Focusing on high-end efficient designs that challenge all aspects of the system architecture, this book helps readers to understand a broader view of the system design, analyze all its most critical components, and select the parts that best fit a particular application. In many cases new technology trends, potential future developments, system flexibility and capability extensions are outlined in preparation for the longevity typical for products in the industry.

Key features:

- Combines software and hardware aspects of the system design.
- Defines components and services supported by open-source and commercial basic and extended software platforms, including operating systems, middleware, security, routing, management layer and more.
- Focuses on disruptive technologies.
- Provides guidelines for developing software architectures based on multi-threaded, multi-process, multi-instance, multi-core, multi-chip, multi-blade and multi-chassis designs.
- Covers a number of advanced high-speed interconnect and fabric interface technologies and their commercial implementations.
- Presents different system form factors from compact pizza-box styles to medium and large bladed systems, including IBM BladeCenter, ATCA and microTCA-based chassis.
- Describes different mezzanine cards, such as PMC, PrPMC, XMC, AMC and others.

Despite the explosion of networking services and applications in the past decades, the basic technological underpinnings of the Internet have remained largely unchanged. At its heart are special-purpose appliances that connect us to the digital world, commonly known as switches and routers. Now, however, the traditional framework is being increasingly challenged by new methods that are jostling for a position in the "next-generation" Internet. The concept of a network that is becoming more programmable is one of the aspects that are taking center stage. This opens new possibilities to embed software applications inside the network itself and to manage networks and communications services with unprecedented ease and efficiency. In this edited volume, distinguished experts take the reader on a tour of different facets of programmable network infrastructure and applications that exploit it. Presenting the state of the art in network embedded management and applications and programmable network infrastructure, the book conveys fundamental concepts and provides a glimpse into various facets of the latest technology in the field.

Your hands-on guide to Visual C++/CLI fundamentals

Expand your expertise—and teach yourself the fundamentals of the Microsoft Visual C++/CLI language. If you have previous programming experience but are new to Visual C++, this tutorial

delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Write and debug object-oriented C++ programs in Visual Studio 2012 Utilize the various features of the C++/CLI language Make use of the Microsoft .NET Framework Class Library Create a simple Windows Store app Use .NET features such as properties, delegates and events Access data from disparate sources using ADO.NET Create and consume web services using Windows Communication Foundation Work effectively with legacy code and COM Pro Visual C++/CLI and the .NET 3.5 Platform is about writing .NET applications using C++/CLI. While readers are learning the ins and outs of .NET application development, they will also be learning the syntax of C++, both old and new to .NET. Readers will also gain a good understanding of the .NET architecture. This is truly a .NET book applying C++ as its development language—not another C++ syntax book that happens to cover .NET. Deploy, orchestrate, and monitor serverless applications using Kubernetes Key FeaturesGet hands-on experience with frameworks, such as Kubeless, Apache OpenWhisk, and FunktionMaster the basics of Kubernetes and prepare yourself for challenging technical assessmentsLearn how to launch Kubernetes both locally and in a public cloudBook Description Kubernetes has established itself as the standard platform for container management, orchestration, and deployment. By learning Kubernetes, you'll be able to design your own serverless architecture by implementing the function-as-a-service (FaaS) model. After an accelerated, hands-on overview of the serverless architecture and various Kubernetes concepts, you'll cover a wide range of real-world development challenges faced by real-world developers, and explore various techniques to overcome them. You'll learn how to create production-ready Kubernetes clusters and run serverless applications on them. You'll see how Kubernetes platforms and serverless frameworks such as Kubeless, Apache OpenWhisk and OpenFaaS provide the tooling to help you develop serverless applications on Kubernetes. You'll also learn ways to select the appropriate framework for your upcoming project. By the end of this book, you'll have the skills and confidence to design your own serverless applications using the power and flexibility of Kubernetes. What you will learnDeploy a Kubernetes cluster locally with MinikubeGet familiar with AWS Lambda and Google Cloud FunctionsCreate, build, and deploy a webpage generated by the serverless functions in the cloudCreate a Kubernetes cluster running on the virtual kubelet hardware abstractionCreate, test, troubleshoot, and delete an OpenFaaS functionCreate a sample Slackbot with Apache OpenWhisk actionsWho this book is for This book is for software developers and DevOps engineers who have basic or intermediate knowledge about Kubernetes and want to learn how to create serverless applications that run on Kubernetes. Those who want to design and create serverless applications running on the cloud, or on-premise Kubernetes clusters will also find this book useful. C++/CLI in Action is a practical guide that will help you breathe new life into your legacy C++ programs. The book begins with a concise C++/CLI tutorial. It then quickly moves to the key themes of native/managed code interop and mixed-mode programming. You'll learn to take advantage of GUI frameworks like Windows Forms and WPF while keeping your native C++ business logic. The book also covers methods for accessing C# or VB.NET components and libraries.