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Mastering Ansible

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Ansible by Examples
Network Programmability and Automation
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Practical Network Automation
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Ansible Quick Start Guide
OpenStack Administration with Ansible

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ALICE ROGERS

Learning Python Networking Packt Publishing Ltd
Deploy a SharePoint farm in a repeatable, predictable, and reliable fashion using Infrastructure as Code (IaC) techniques to automate provisioning. Savvy IT pros will learn how to use DevOps practices and open source tools to greatly reduce costs, and streamline management operations for SharePoint farms deployed via Amazon Web Services (AWS), Azure, or on premise. DevOps for SharePoint will help you navigate the complex challenges of deploying and managing SharePoint Server farms. You will learn how to reduce time-consuming tasks and errors

when generating development, testing, or production environments. And you will benefit from learning proven methods to apply Microsoft updates with minimal downtime and productivity loss. Whether you are a SharePoint architect, IT pro, or developer helping customers with the SharePoint platform, this book will teach you the most useful DevOps practices to tackle those issues and broaden your skill set. What You'll Learn
Understand the basics of the most popular open source tools—Vagrant, Packer, Terraform, and Ansible—and how to use them in the context of deploying and scaling a SharePoint farm
Use Vagrant to build SharePoint development environments in less than an hour, and add automated testing
Use Packer to create a “golden image” with preconfigured settings, and then use it as the base image in your Terraform configuration for both

AWS and Azure farms Use Terraform to scale your SharePoint farm topology Use Red Hat's Ansible Playbooks to perform configuration management on your farm Use Terraform to deploy immutable infrastructure environments using IaC (Infrastructure as Code) Use InSpec 2.0 to stay in compliance by testing your cloud infrastructure Use Ansible to apply Microsoft updates and patches Who This Book Is For IT pros and developers who are looking to expand their knowledge and take a modern approach by using open source technologies to work with Microsoft products. Experience installing SharePoint, and a basic understanding of either Azure or AWS, is helpful.

Ansible 2 Cloud Automation Cookbook Packt Publishing Ltd Use Ansible to configure your systems, deploy software, and orchestrate advanced IT tasks Key Features Get familiar with the fundamentals of Ansible 2.7 Understand how to use Ansible Tower to scale your IT automation Gain insights into how to develop and test Ansible playbooks Book Description Ansible is an open source automation platform that assists organizations with tasks such as application deployment, orchestration, and task automation. With the release of Ansible 2.7, even complex tasks can be handled much more easily than before. Learning Ansible 2.7 will help you take your first steps toward understanding the fundamentals and practical aspects of Ansible by introducing you to topics such as playbooks, modules, and the installation of Linux, Berkeley Software Distribution (BSD), and Windows support. In addition to this, you will focus on various testing strategies, deployment, and orchestration to build on your knowledge. The book will then help you get accustomed to features including cleaner architecture, task blocks, and playbook

parsing, which can help you to streamline automation processes. Next, you will learn how to integrate Ansible with cloud platforms such as Amazon Web Services (AWS) before gaining insights into the enterprise versions of Ansible, Ansible Tower and Ansible Galaxy. This will help you to use Ansible to interact with different operating systems and improve your working efficiency. By the end of this book, you will be equipped with the Ansible skills you need to automate complex tasks for your organization. What you will learn Create a web server using Ansible Write a custom module and test it Deploy playbooks in the production environment Troubleshoot networks using Ansible Use Ansible Galaxy and Ansible Tower during deployment Deploy an application with Ansible on AWS, Azure and DigitalOcean Who this book is for This beginner-level book is for system administrators who want to automate their organization's infrastructure using Ansible 2.7. No prior knowledge of Ansible is required

Demystifying Ansible Automation Platform O'Reilly Media Understand data science concepts and methodologies to manage and deliver top-notch solutions for your organization Key Features Learn the basics of data science and explore its possibilities and limitations Manage data science projects and assemble teams effectively even in the most challenging situations Understand management principles and approaches for data science projects to streamline the innovation process Book Description Data science and machine learning can transform any organization and unlock new opportunities. However, employing the right management strategies is crucial to guide the solution from prototype to production. Traditional

approaches often fail as they don't entirely meet the conditions and requirements necessary for current data science projects. In this book, you'll explore the right approach to data science project management, along with useful tips and best practices to guide you along the way. After understanding the practical applications of data science and artificial intelligence, you'll see how to incorporate them into your solutions. Next, you will go through the data science project life cycle, explore the common pitfalls encountered at each step, and learn how to avoid them. Any data science project requires a skilled team, and this book will offer the right advice for hiring and growing a data science team for your organization. Later, you'll be shown how to efficiently manage and improve your data science projects through the use of DevOps and ModelOps. By the end of this book, you will be well versed with various data science solutions and have gained practical insights into tackling the different challenges that you'll encounter on a daily basis. What you will learn

- Understand the underlying problems of building a strong data science pipeline
- Explore the different tools for building and deploying data science solutions
- Hire, grow, and sustain a data science team
- Manage data science projects through all stages, from prototype to production
- Learn how to use ModelOps to improve your data science pipelines
- Get up to speed with the model testing techniques used in both development and production stages

Who this book is for This book is for data scientists, analysts, and program managers who want to use data science for business productivity by incorporating data science workflows efficiently. Some understanding of basic data science concepts will be useful to get the most out of this book.

Ansible for Real-Life Automation Packt Publishing Ltd
Expert solutions to automate routine IT tasks using Ansible. KEY FEATURES ● Single handy guide for all IT teams to bring automation throughout the enterprise. ● In-depth practical demonstration of various automation use-cases on the IT infrastructure. ● Expert-led guidelines and best practices to write Ansible playbooks without any errors. DESCRIPTION This book deals with all aspects of Ansible IT infrastructure automation. While reading this book, you should look for automation opportunities in your current role and automate time-consuming and repetitive tasks using Ansible. This book contains Ansible fundamentals assuming you are totally new to Ansible. Proper instructions for setting up the laboratory environment to implement each concept are explained and covered in detail. This book is equipped with practical examples, use-cases and modules on the network. The system and cloud management are practically demonstrated in the book. You will learn to automate all the common administrative tasks throughout the entire IT infrastructure. This book will help establish and build the proficiency of your automation skills, and you can start making the best use of Ansible in enterprise automation. WHAT WILL YOU LEARN ● Install Ansible and learn the fundamentals. ● Use practical examples and learn about the loop, conditional statements, and variables. ● Understand the Ansible network modules and how to apply them in our day-to-day network management. ● Learn to automate the Windows and Linux infrastructure using Ansible. ● Automate routine administrative tasks for AWS, Azure, Google Cloud. ● Explore how to use Ansible for Docker and Kubernetes. WHO THIS BOOK IS FOR This book is

for all IT students and professionals who want to manage or plan to administer the IT infrastructure. Knowing the basic Linux command-line would be good although not mandatory. TABLE OF CONTENTS 1. Up and Running with Ansible 2. Ansible Basics 3. Ansible Advance Concepts 4. Ansible for Network Administration 5. Ansible for System Administration 6. Ansible for Cloud Administration 7. Ansible Tips and Tricks

Security Automation with Ansible 2 Packt Publishing Ltd Concepts, methods, and techniques—supported with practical, real-world examples The first book to cover the ISTQB® Certified Test Automation Engineer syllabus With real-world project examples - Suitable as a textbook, as a reference book for ISTQB® training courses, and for self-study This book provides a complete overview of how to design test automation processes and integrate them into your organization or existing projects. It describes functional and technical strategies and goes into detail on the relevant concepts and best practices. The book's main focus is on functional system testing. Important new aspects of test automation, such as automated testing for mobile applications and service virtualization, are also addressed as prerequisites for creating complex but stable test processes. The text also covers the increase in quality and potential savings that test automation delivers. The book is fully compliant with the ISTQB® syllabus and, with its many explanatory examples, is equally suitable for preparation for certification, as a concise reference book for anyone who wants to acquire this essential skill, or for university-level study.

Ansible for DevOps IGI Global

The way developers design, build, and run software has changed

significantly with the evolution of microservices and containers. These modern architectures use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to. With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators. *AWS Automation Cookbook* "O'Reilly Media, Inc."

Sneak Peek The Sneak Peek program provides early access to Pearson video products and is exclusively available to Safari subscribers. Content for titles in this program is made available throughout the development cycle, so products may not be complete, edited, or finalized, including video post-production editing. 10+ Hours of Video Instruction Overview In Automating with Ansible LiveLessons we will be building on the Ansible

Fundamentals LiveLessons foundation. To make sure that you don't miss anything essential, this course starts with an Ansible Basics getting started lab, which will involve setting up an environment where all of the Ansible basic skills will be reviewed. We will then move on to using DevOps. You will learn how Vagrant can be used to set up an environment with virtual machines, and set up an IT Infrastructure with Ansible that you can follow along through the author demonstrations. We will also discuss how to manage Windows, network equipment, as well as cloud infrastructure with Ansible. Next, we'll have a look at some of the more advanced Ansible features, such as working with roles, task control, and using Ansible Vault. Then we will discuss Ansible optimization and troubleshooting with walk-through examples. In the last lesson, we'll learn how to work with Ansible Tower, which helps you to efficiently use Ansible in a datacenter environment. This course compliments the Ansible Fundamentals LiveLessons course and can also be used as a secondary resource to get you started studying for the Red Hat Certificate of Expertise in Ansible Automation (exam 407). Topics include:

Module 1: Setting up Ansible-based DevOps Environment
 Module 2: Advanced Ansible Features
 Module 3: Ansible Optimization and Troubleshooting
 Module 4: Ansible Tower

About the Instructor
 Sander van Vugt has been teaching Linux classes since 1995 and has written more than 60 books about different Linux-related topics. Sander is a Red Hat Certified Instructor and has deep knowledge and understanding of Red Hat Enterprise Linux, including the upcoming Red Hat Enterprise Linux 7. He has been teaching Linux since 1994, and as a Red Hat Certified Examiner he is authorized to proctor different Red Hat exams. He is also a

regular speaker on major Linux conferences all over the world. Skill Level Intermediate/Advanced Learn How To Review the basics of Ansible, including running Ad-hoc Commands and implementing Playbooks Implement DevOps using Vagrant, including s...

Automating Junos Administration Packt Publishing Ltd
 Design, develop, and solve real-world automation and orchestration problems by unlocking the automation capabilities of Ansible. Key Features Tackle complex automation challenges with the newly added features in Ansible 2.7 Book Description Automation is essential for success in the modern world of DevOps. Ansible provides a simple, yet powerful, automation engine for tackling complex automation challenges. This book will take you on a journey that will help you exploit the latest version's advanced features to help you increase efficiency and accomplish complex orchestrations. This book will help you understand how Ansible 2.7 works at a fundamental level and will also teach you to leverage its advanced capabilities. Throughout this book, you will learn how to encrypt Ansible content at rest and decrypt data at runtime. Next, this book will act as an ideal resource to help you master the advanced features and capabilities required to tackle complex automation challenges. Later, it will walk you through workflows, use cases, orchestrations, troubleshooting, and Ansible extensions. Lastly, you will examine and debug Ansible operations, helping you to understand and resolve issues. By the end of the book, you will be able to unlock the true power of the Ansible automation engine and tackle complex, real- world actions with ease. What you will learn Gain an in-depth understanding of how Ansible

works under the hood Fully automate Ansible playbook executions with encrypted data Access and manipulate variable data within playbooks Use blocks to perform failure recovery or cleanup Explore the Playbook debugger and the Ansible Console Troubleshoot unexpected behavior effectively Work with cloud infrastructure providers and container systems Develop custom modules, plugins, and dynamic inventory sources Who this book is for This book is for Ansible developers and operators who have an understanding of its core elements and applications but are now looking to enhance their skills in applying automation using Ansible.

Learn Ansible Quickly Apress

Cisco expert Todd Lammle prepares you for the NEW Cisco CCNA certification exam! Cisco, the world leader in network technologies, has released the new Cisco Certified Network Associate (CCNA) exam. This consolidated certification exam tests a candidate's ability to implement and administer a wide range of modern IT networking technologies. The CCNA Certification Study Guide: Volume 2 Exam 200-301 covers every exam objective, including network components, IP connectivity and routing, network security, virtual networking, and much more. Clear and accurate chapters provide you with real-world examples, hands-on activities, in-depth explanations, and numerous review questions to ensure that you're fully prepared on exam day. Written by the leading expert on Cisco technologies and certifications, this comprehensive exam guide includes access to the acclaimed Sybex online learning system—an interactive environment featuring practice exams, electronic flashcards, a searchable glossary, a self-assessment test, and

video tutorials on critical Cisco networking concepts and technologies. Covers 100% of all CCNA Exam 200-301 objectives Provides accurate and up-to-date information on core network fundamentals Explains a broad range of Cisco networking and IT infrastructure Features learning objectives, chapter summaries, 'Exam Essentials' and figures, tables, and illustrations The CCNA Certification Study Guide: Volume 2 Exam 200-301 is the ideal resource for those preparing for the new CCNA certification, as well as IT professionals looking to learn more about Cisco networking concepts and technologies.

Learning DevOps Packt Publishing Ltd

Get More from your Network with Automation tools to increase its effectiveness. About This Book Get started with network automation (and different automation tasks) with relevant use cases Apply software design principles such as Continuous Integration and DevOps to your network toolkit Guides you through some best practices in automation Who This Book Is For If you are a network engineer looking for an extensive guide to help you automate and manage your network efficiently, then this book is for you. What You Will Learn Get the detailed analysis of Network automation Trigger automations through available data factors Improve data center robustness and security through specific access and data digging Get an Access to APIs from Excel for dynamic reporting Set up a communication with SSH-based devices using netmiko Make full use of practical use cases and best practices to get accustomed with the various aspects of network automation In Detail Network automation is the use of IT controls to supervise and carry out every-day network management functions. It plays a key role in network

virtualization technologies and network functions. The book starts by providing an introduction to network automation, SDN, and its applications, which include integrating DevOps tools to automate the network efficiently. It then guides you through different network automation tasks and covers various data digging and reporting methodologies such as IPv6 migration, DC relocations, and interface parsing, all the while retaining security and improving data center robustness. The book then moves on to the use of Python and the management of SSH keys for machine-to-machine (M2M) communication, all followed by practical use cases. The book also covers the importance of Ansible for network automation including best practices in automation, ways to test automated networks using different tools, and other important techniques. By the end of the book, you will be well acquainted with the various aspects of network automation. Style and approach A clear, concise, and straightforward book that will enable you to automate networks and improve performance.

[Network Automation with Go](#) dpunkt.verlag

Configure Ansible and start coding YAML playbooks using the appropriate modules
 Key Features
 Create and use Ansible Playbook to script and organise management tasks
 Benefit from the Ansible community roles and modules to resolve complex and niche tasks
 Write configuration management code to automate infrastructure
 Book Description
 Configuration Management (CM) tools help administrators reduce their workload. Ansible is one of the best Configuration Management tools, and can act as an orchestrator for managing other CMs. This book is the easiest way to learn how to use Ansible as an orchestrator and a Configuration Management tool. With this book, you will learn

how to control and monitor computer and network infrastructures of any size, physical or virtual. You will begin by learning about the Ansible client-server architecture. To get started, you will set up and configure an Ansible server. You will then go through the major features of Ansible: Playbook and Inventory. Then, we will look at Ansible systems and network modules. You will then use Ansible to enable infrastructure automated configuration management, followed by best practices for using Ansible roles and community modules. Finally, you will explore Ansible features such as Ansible Vault, Ansible Containers, and Ansible plugins. What you will learn
 Implement Playbook YAML scripts and its capacities to simplify day-to-day tasks
 Setup Static and Dynamic Inventory
 Use Ansible predefined modules for Linux, Windows, networking, and virtualisation administration
 Organize and configure the host filesystem using storage and files modules
 Implement Ansible to enable infrastructure automated configuration management
 Simplify infrastructure administration
 Search and install new roles and enable them within Ansible
 Secure your data using Ansible Vault
 Who this book is for
 This book is targeted at System Administrators and Network Administrators who want to use Ansible to automate an infrastructure. No knowledge of Ansible is required.

Hands-On Enterprise Automation on Linux Packt Publishing Ltd
 West's COMPTIA CLOUD+ GUIDE TO CLOUD COMPUTING, 2nd Edition, equips students and professionals interested in mastering fundamental, vendor-independent cloud computing concepts. Fully updated content maps to the CompTIA Cloud+ (CVO-003) exam objectives. The new exam has less emphasis on physical host configuration and more emphasis on cloud

infrastructure, management and security. Each module in the second edition is packed with enriched features that provide the most effective and durable learning experience, such as self-check questions, group activities and capstone projects that enable learners to strengthen their new skills and knowledge through real design and deployment scenarios. In addition, learners have the opportunity to work with three popular cloud platforms: AWS (Amazon Web Services), Microsoft Azure and GCP (Google Cloud Platform). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Day One Packt Publishing Ltd

Design, build, and automate 10 real-world OpenStack administrative tasks with Ansible About This Book Automate real-world OpenStack cloud operator administrative tasks Construct a collection of automation code to save time on managing your OpenStack cloud Use this step-by-step tutorial to automate such tasks with Ansible Who This Book Is For If you are an OpenStack-based cloud operator and/or infrastructure administrator and are interested in automating administrative functions, then this book is exactly what you are looking for. Having a functioning OpenStack environment is helpful, but most certainly not necessary. What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible works and assess the defined best practices Create Ansible playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high-level overview of

OpenStack and the current production-ready projects Deep dive into OpenStack CLI tools and find out how to use them In Detail Most organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough. Being able to improve application deployments, reduce infrastructure downtime, and eliminate daily manual tasks can only be accomplished through some sort of automation. Packed with real-world OpenStack administrative tasks, this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools—Ansible. We will start with a brief overview of OpenStack and Ansible and highlight some best practices. Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as creating multiple users/tenants, setting up Multi-Tenant Isolation, customizing your clouds quotas, taking instance snapshots, evacuating compute hosts for maintenance, and running cloud health checks, and a step-by-step tutorial on how to automate these tasks with Ansible. Style and approach This easy-to-follow reference guide is packed with examples of real-world OpenStack administration tasks; each task is explained in detail and then subsequently turned into automation code.

Learn Ansible Packt Publishing Ltd

Orchestrate your cloud infrastructure Key Features Recipe-based approach to install and configure cloud resources using Ansible Covers various cloud-related modules and their functionalities Includes deployment of a sample application to the cloud resources that we create Learn the best possible way to manage and automate your cloud infrastructure Book Description Ansible

has a large collection of inbuilt modules to manage various cloud resources. The book begins with the concepts needed to safeguard your credentials and explain how you interact with cloud providers to manage resources. Each chapter begins with an introduction and prerequisites to use the right modules to manage a given cloud provider. Learn about Amazon Web Services, Google Cloud, Microsoft Azure, and other providers. Each chapter shows you how to create basic computing resources, which you can then use to deploy an application. Finally, you will be able to deploy a sample application to demonstrate various usage patterns and utilities of resources. What you will learn Use Ansible Vault to protect secrets Understand how Ansible modules interact with cloud providers to manage resources Build cloud-based resources for your application Create resources beyond simple virtual machines Write tasks that can be reused to create resources multiple times Work with self-hosted clouds such as OpenStack and Docker Deploy a multi-tier application on various cloud providers Who this book is for If you are a system administrator, infrastructure engineer, or a DevOps engineer who wants to obtain practical knowledge about Ansible and its cloud deliverables, then this book is for you. Recipes in this book are designed for people who would like to manage their cloud infrastructures efficiently using Ansible, which is regarded as one of the best tools for cloud management and automation.

Kubernetes Patterns Luca Berton

"This practical guide shows network engineers how to use a range of technologies and tools--including Linux, Python, JSON, and XML--to automate their systems through code. [This book]

will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity."--Page 4 of cover

Ansible Playbook Essentials Packt Publishing Ltd

This book is your concise guide to Ansible, the simple way to automate apps and IT infrastructure. In less than 250 pages, this book takes you from knowing nothing about configuration management to understanding how to use Ansible in a professional setting. You will learn how to create an Ansible playbook to automatically set up an environment, ready to install an open source project. You'll extract common tasks into roles that you can reuse across all your projects, and build your infrastructure on top of existing open source roles and modules that are available for you to use. You will learn to build your own modules to perform actions specific to your business. By the end you will create an entire cluster of virtualized machines, all of which have your applications and all their dependencies installed automatically. Finally, you'll test your Ansible playbooks. Ansible can do as much or as little as you want it to. Ansible: From Beginner to Pro will teach you the key skills you need to be an Ansible professional. You'll be writing roles and modules and creating entire environments without human intervention in no time at all - add it to your library today. What You Will Learn Learn why Ansible is so popular and how to download and install it Create a playbook that automatically downloads and installs a popular open source project Use open source roles to complete common tasks, and write your own specific to your business Extend Ansible by writing your own modules Test your infrastructure using Test Kitchen and ServerSpec Who This Book

Is For Developers that currently create development and production environments by hand. If you find yourself running apt-get install regularly, this book is for you. Ansible adds reproducibility and saves you time all at once. Ansible: From Beginner to Pro is great for any developer wanting to enhance their skillset and learn new tools.

Managing Data Science "O'Reilly Media, Inc."

Network automation is the process of efficiently automating the management and functionality of networks. Through practical use-cases and examples, this book introduces you to the popular tools such as Python, Ansible, Chef and more, that are used to automate a network.

DevOps for SharePoint Packt Publishing Ltd

Ansible is an IT automation and configuration management tool widely used for infrastructure, cloud, and network automation. Trends and surveys say that Ansible is the choice of tool among system administrators as it is so easy to use. In this book, you'll learn how to integrate Ansible into your day-to-day role as a system administrator, ...

Learning Ansible 2.X* BPB Publications

How can you grow and maintain a reliable, flexible, and cost-efficient network in the face of ever-increasing demands? With this practical guide, network engineers will learn how to program Juniper network devices to perform day-to-day tasks, using the automation features of the Junos OS. Junos supports several automation tools that provide powerful solutions to common network automation tasks. Authors Jonathan Looney and Stacy Smith, senior testing engineers at Juniper, will help you determine which tools work best for your particular network

requirements. If you have experience with Junos, this book will show you how automation can make a big difference in the operation of your existing network. Manage Junos software with remote procedure calls and a RESTful API Represent devices as Python objects and manage them with Python's PyEZ package Customize Junos software to detect and block commits that violate your network standards Develop custom CLI commands to present information the way you want Program Junos software to automatically respond to network events Rapidly deploy new Junos devices into your network with ZTP and Netconify tools Learn how to use Ansible or Puppet to manage Junos software

Learning Ansible 2.7 Packt Publishing Ltd

Understand the world of modern network automation with Go and deepen your knowledge with insights from 10+ experts who have real-world hands-on experience with network automation and/or are using Go for network-related tasks Key FeaturesA comprehensive guide to the world of modern network automationUse Go to build anything from repetitive task automation to complex distributed systemsOver 30 practical, ready-to-use sample programsBook Description Go's built-in first-class concurrency mechanisms make it an ideal choice for long-lived low-bandwidth I/O operations, which are typical requirements of network automation and network operations applications. This book provides a quick overview of Go and hands-on examples within it to help you become proficient with Go for network automation. It's a practical guide that will teach you how to automate common network operations and build systems using Go. The first part takes you through a general overview, use cases, strengths, and inherent weaknesses of Go to

prepare you for a deeper dive into network automation, which is heavily reliant on understanding this programming language. You'll explore the common network automation areas and challenges, what language features you can use in each of those areas, and the common software tools and packages. To help deepen your understanding, you'll also work through real-world network automation problems and apply hands-on solutions to them. By the end of this book, you'll be well-versed with Go and have a solid grasp on network automation. What you will learn

Understand Go programming language basics via network-related examples

Find out what features make Go a powerful

alternative for network automation

Explore network automation goals, benefits, and common use cases

Discover how to interact with network devices using a variety of technologies

Integrate Go programs into an automation framework

Take advantage of the OpenConfig ecosystem with GoBuild distributed and scalable systems for network observability

Who this book is for

This book is for all network engineers, administrators, and other network practitioners looking to understand what network automation is and how the Go programming language can help develop network automation solutions. As the first part of the book offers a comprehensive overview of Go's main features, this book is suitable for beginners with a solid grasp on programming basics.