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Learning SaltStack Terraform: Up & Running Terraform: Up and Running Ansible Quick Start Guide Mastering SaltStack **Software Source Code** Learn Ansible Innovative Security Solutions for Information Technology and Communications CCNP Enterprise Certification Study Guide: Implementing and Operating Cisco Enterprise Network Core Technologies Testing Node.js Applications **Python for DevOps CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide Data Communication and Computer Networks: A Business User's Approach SELinux System Administration Research Anthology on Cross-Disciplinary Designs and Applications of Automation Programming and Automating Cisco Networks Terraform in Action Mastering Python Networking Core Kubernetes Emerging Automation Techniques for the Future Internet Kubernetes for Full-Stack Developers Deployment with Docker Python Network Programming Ansible for IT Experts Re-Engineering Legacy Software Expert Python Programming Pro Linux System Administration DEVOPS USING SPRING CLOUD AND NETFLIX Ansible: Up and Running Modern DevOps Practices NGINX Cookbook Ansible Playbook Essentials Learning DevOps Continuous Delivery 2.0 Customizing Chef Managing Digital Hands-On Security in DevOps BEGINNING CLOUD NATIVE APPLICATION WITH SPRING CCNA Cloud CLDADM 210-455 Official Cert Guide Microservices using Spring Cloud computing**

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Programming and Automating Cisco Networks Jul 16

2021 Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation, handle accelerating complexity, and add value in any data

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LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-based switches, Cisco ACI, Campus, and WAN technologies. You'll learn how to use advanced Cisco tools together with industry-standard languages and platforms, including Python, JSON, and Linux. The authors demonstrate how to support dynamic application environments, tighten links between apps and infrastructure, and make DevOps work better. This book will be an indispensable resource for network and cloud designers, architects, DevOps engineers, security

specialists, and every professional who wants to build or operate high-efficiency networks. Drive more value through programmability and automation, freeing resources for high-value innovation Move beyond error-prone, box-by-box network management Bridge management gaps arising from current operational models Write NX-OS software to run on, access, or extend your Nexus switch Master Cisco's powerful on-box automation and operation tools Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller Interact with and enhance Cisco

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Application Centric Infrastructure (ACI)
Build self-service catalogs to accelerate application delivery
Find resources for deepening your expertise in network automation

Ansible for IT Experts Nov 07 2020
The best Audience for this book will be those who has just started their way towards Automation and interested in Ansible. This books also shares authors' experience and approach in Automating your infrastructure with Ansible.

Research Anthology on Cross-Disciplinary Designs and Applications of Automation Aug 17 2021

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history, technological advancements have been made for the ease of human labor. With our most recent advancements, it has been the work of scholars to discover ways for machines to take over a large part of this labor and reduce human intervention. These advancements may become essential processes to nearly every industry. It is essential to be knowledgeable about automation so that it may be applied. Research Anthology on Cross-Disciplinary Designs and Applications of Automation is a comprehensive resource on the emerging designs and application of

automation. This collection features a number of authors spanning multiple disciplines such as home automation, healthcare automation, government automation, and more. Covering topics such as human-machine interaction, trust calibration, and sensors, this research anthology is an excellent resource for technologists, IT specialists, computer engineers, systems and software engineers, manufacturers, engineers, government officials, professors, students, healthcare administration, managers, CEOs,

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researchers, and academicians.

Pro Linux System Administration

Aug 05 2020

Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. Pro Linux System Administration makes it easy for small- to medium-sized businesses to enter the world of zero-cost software running on Linux and covers all the distros you might want to use, including Red Hat,

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and CentOS. Pro Linux System Administration takes a layered, component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn: Understand Linux

architecture Build, back up, and recover Linux servers Create basic networks and network services with Linux Build and implement Linux infrastructure and services including mail, web, databases, and file and print Implement Linux security Resolve Linux performance and capacity planning issues Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

BEGINNING CLOUD
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NATIVE APPLICATION WITH SPRING Aug 24 2019

Introduction to Cloud Native Apps with Spring , Cloud Native is a style of application development that encourages easy adoption of best practices in the areas of continuous delivery and value-driven development. A related discipline is that of building 12-factor Apps in which development practices are aligned with delivery and operations goals, for instance by using declarative programming and management and monitoring. Spring Cloud facilitates these styles of development in a

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ways and the starting point is a set of features that all components in a distributed system either need or need easy access to when required.

Introduction to DevOps, will introduce you to the microservices architecture, cloud environment, etc. You will learn the difference between a microservice based application and a monolith application while also learning how to migrate to a microservices application. Spring for DevOps & Microservices, will introduce you Spring Boot framework. You will learn how to effectively use it to create microservice application. We will cover such topics

like creating REST API using Spring MVC annotations, providing API documentation using Swagger2, and exposing health checks and metrics using Spring Boot Actuator endpoints. *Managing Digital* Oct 26 2019 About This Book This book, "Managing Digital: Concepts and Practices", is intended to guide a practitioner through the journey of building a digital-first viewpoint and the skills needed to thrive in the digital-first world. As such, this book is a bit of an experiment for The Open Group; it isn't structured as a traditional standard or guide. Instead, it is structured to show the key issues and skills needed at each stage of the

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digital journey, starting with the basics of a small digital project, eventually building to the concerns of a large enterprise. So, feel free to digest this book in stages — the section Introduction for the student is a good guide. The book is intended for both academic and industry training purposes. This book seeks to provide guidance for both new entrants into the digital workforce and experienced practitioners seeking to update their understanding on how all the various themes and components of IT management fit together in the new world. About The Open Group Press

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Press is an imprint of The Open Group for advancing knowledge of information technology by publishing works from individual authors within The Open Group membership that are relevant to advancing The Open Group mission of Boundaryless Information Flow™. The key focus of The Open Group Press is to publish high-quality monographs, as well as introductory technology books intended for the general public, and act as a complement to The Open Group Standards, Guides, and White Papers. The views and opinions expressed in this book are

those of the author, and do not necessarily reflect the consensus position of The Open Group members or staff. *Emerging Automation Techniques for the Future Internet* Mar 12 2021 Automation techniques are meant to facilitate the delivery of flexible, agile, customized connectivity services regardless of the nature of the networking environment. New architectures combine advanced forwarding and routing schemes, mobility features, and customer-adapted resource facilities used for operation and delivery of services. Emerging

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Automation Techniques for the Future Internet is a collection of innovative research on the methods and applications of new architectures for the planning, dynamic delivery, and operation of services. While highlighting topics including policy enforcement, self-architectures, and automated networks, this book is ideally designed for engineers, IT consultants, professionals, researchers, academicians, and students seeking current research on techniques and structures used to enhance experience and services rendered.

Hands-On Security in DevOps Sep 25

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organization's security at all levels by introducing the latest strategies for securing DevOps

Key Features
Integrate security at each layer of the DevOps pipeline
Discover security practices to protect your cloud services by detecting fraud and intrusion
Explore solutions to infrastructure security using DevOps principles

Book Description
DevOps has provided speed and quality benefits with continuous development and deployment methods, but it does not guarantee the security of an entire organization. *Hands-On Security in DevOps* shows you how to adopt DevOps techniques to continuously

improve your organization's security at every level, rather than just focusing on protecting your infrastructure. This guide combines DevOps and security to help you to protect cloud services, and teaches you how to use techniques to integrate security directly in your product. You will learn how to implement security at every layer, such as for the web application, cloud infrastructure, communication, and the delivery pipeline layers. With the help of practical examples, you'll explore the core security aspects, such as blocking attacks, fraud detection, cloud forensics, and

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incident response. In the concluding chapters, you will cover topics on extending DevOps security, such as risk assessment, threat modeling, and continuous security. By the end of this book, you will be well-versed in implementing security in all layers of your organization and be confident in monitoring and blocking attacks throughout your cloud services. What you will learn Understand DevSecOps culture and organization Learn security requirements, management, and metrics Secure your architecture design by looking at threat modeling, coding tools and practices Handle most

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issues and explore black and white-box testing tools and practices Work with security monitoring toolkits and online fraud detection rules Explore GDPR and PII handling case studies to understand the DevSecOps lifecycle Who this book is for Hands-On Security in DevOps is for system administrators, security consultants, and DevOps engineers who want to secure their entire organization. Basic understanding of Cloud computing, automation frameworks, and programming is necessary.

Core Kubernetes
Apr 12 2021 Take a deep dive into Kubernetes inner components and

discover what really powers a Kubernetes cluster. This in-depth guide shines a light on Kubernetes' murky internals, to help you better plan cloud native architectures and ensure the reliability of your systems. To build and operate reliable Kubernetes-based systems, you need to understand what's going on below the surface. Core Kubernetes is an in-depth guide to Kubernetes' internal workings written by Kubernetes contributors Chris Love and Jay Vyas. It's packed with experience-driven insights and advanced techniques you won't find anywhere else.

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You'll understand the unique security concerns of container-based applications, minimize costly unused capacity, and get pro tips for maximizing performance. Diagrams, labs, and hands-on examples ensure that the complex ideas are easy to understand and practical to apply.

Data Communication and Computer Networks: A Business User's Approach Oct 19 2021

Whether you are preparing for a career as a business manager, computer programmer or system designer, or you simply want to be an informed home computer

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COMMUNICATIONS AND COMPUTER NETWORKS, 9th Edition provides an understanding of the essential features, operations and limitations of today's computer networks. You learn about systems both on premises and in the cloud as the author balances technical concepts with practical, everyday issues. Updates address the latest developments and practices in cloud business principles and security techniques, software-defined networking, 5G, the Internet of Things, data analytics and supporting remote workforces. This edition also covers the CompTIA's Cloud Essentials+ exam to help you

prepare for this vendor-neutral, business-oriented cloud computing certification. Hands-on learning features and thought-provoking content also guide you through virtual networking technologies, industry convergence and wired and wireless LAN technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Terraform: Up and Running Aug 29 2022 Terraform has emerged as a key player in the DevOps world for defining, launching, and managing infrastructure as code (IAC) across a

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variety of cloud and virtualization platforms, including AWS, Google Cloud, and Azure. This hands-on book is the fastest way to get up and running with Terraform. Gruntwork co-founder Yevgeniy (Jim) Brikman walks you through dozens of code examples that demonstrate how to use Terraform's simple, declarative programming language to deploy and manage infrastructure with just a few commands.

Whether you're a novice developer, aspiring DevOps engineer, or veteran sysadmin, this book will take you from Terraform basics to running a full tech stack

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supporting a massive amount of traffic and a large team of developers. Compare Terraform to other IAC tools, such as Chef, Puppet, Ansible, and Salt Stack Use Terraform to deploy server clusters, load balancers, and databases Learn how Terraform manages the state of your infrastructure and how it impacts file layout, isolation, and locking Create reusable infrastructure with Terraform modules Try out advanced Terraform syntax to implement loops, if-statements, and zero-downtime deployment Use Terraform as a team, including best practices for writing, testing, and versioning

Terraform code
Ansible Quick Start Guide Jul 28 2022
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

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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

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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.

Modern DevOps Practices May 02 2020 Enhance DevOps workflows by integrating the functionalities of Docker, Kubernetes,
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Spinnaker, Ansible, Terraform, Flux CD, CaaS, and more with the help of practical examples and expert tips

Key Features Get up and running with containerization-as-a-service and infrastructure automation in the public cloud

Learn container security techniques and secret management with Cloud KMS, Anchore Grype, and Grafeas

Kritis Leverage the combination of DevOps, GitOps, and automation to continuously ship a package of software

Book Description Containers have entirely changed how developers and end-users see applications as a whole. With this

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all about containers, their architecture and benefits, and how to implement them within your development lifecycle. You'll discover how you can transition from the traditional world of virtual machines and adopt modern ways of using DevOps to ship a package of software continuously. Starting with a quick refresher on the core concepts of containers, you'll move on to study the architectural concepts to implement modern ways of application development. You'll cover topics around Docker, Kubernetes, Ansible, Terraform, Packer, and other similar tools that

will help you to build a base. As you advance, the book covers the core elements of cloud integration (AWS ECS, GKE, and other CaaS services), continuous integration, and continuous delivery (GitHub actions, Jenkins, and Spinnaker) to help you understand the essence of container management and delivery. The later sections of the book will take you through container pipeline security and GitOps (Flux CD and Terraform). By the end of this DevOps book, you'll have learned best practices for automating your development lifecycle and making the most of

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containers, infrastructure automation, and CaaS, and be ready to develop applications using modern tools and techniques. What you will learn Become well-versed with AWS ECS, Google Cloud Run, and Knative Discover how to build and manage secure Docker images efficiently Understand continuous integration with Jenkins on Kubernetes and GitHub actions Get to grips with using Spinnaker for continuous deployment/delivery Manage immutable infrastructure on the cloud with Packer, Terraform, and Ansible Explore the world of GitOps Vs Chef Vs Ansible Vs Saltstack Technoism Read Pdf Free

with GitHub actions, Terraform, and Flux CD Who this book is for If you are a software engineer, system administrator, or operations engineer looking to step into the world of DevOps within public cloud platforms, this book is for you. Existing DevOps engineers will also find this book useful as it covers best practices, tips, and tricks to implement DevOps with a cloud-native mindset. Although no containerization experience is necessary, a basic understanding of the software development life cycle and delivery will help you get the most out of the book. CCNP Enterprise

Certification Study Guide: Implementing and Operating Cisco Enterprise Network Core Technologies Feb 20 2022 The practical and conceptual knowledge you need to attain CCNP Enterprise certification From one of the most trusted study guide publishers comes CCNP Enterprise Certification Study Guide: Exam 350-401. This guide helps you develop practical knowledge and best practices for critical aspects of enterprise infrastructure so you can gain your CCNP Enterprise certification. If you're hoping to attain a broader range of skills and a solid understanding of Cisco technology, [Download Ebook fasttrack.hk on December 1, 2022 Read Pdf Free](#)

this guide will also provide fundamental concepts for learning how to implement and operate Cisco enterprise network core technologies. By focusing on real-world skills, each chapter prepares you with the knowledge you need to excel in your current role and beyond. It covers emerging and industry-specific topics, such as SD-WAN, network design, wireless, and automation. This practical guide also includes lessons on:

● Automation ● Network assurance ● Security ● Enterprise infrastructure ● Dual-stack architecture ●

addition to helping you gain enterprise knowledge, this study guide can lead you toward your Cisco specialist certification. When you purchase this guide, you get access to the information you need to prepare yourself for advances in technology and new applications, as well as online study tools such as: ● Bonus practice exams ● Pre-made flashcards ● Glossary of key terms ● Specific focus areas Expand your skillset and take your career to the next level with CCNP Enterprise Certification Study Guide.

Mastering SaltStack Jun 26 2022 Take charge of SaltStack to

automate and configure your enterprise-grade environments About This Book Automate tasks effectively and take charge of your infrastructure Effectively scale Salt to manage thousands of machines and tackle everyday problems Explore Salt's inner workings and advance your knowledge of it Who This Book Is For This book is ideal for IT professionals and ops engineers who already manage groups of servers, but would like to expand their knowledge and gain expertise with SaltStack. This book explains the advanced features and concepts of Salt. A basic

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knowledge of Salt is required in order to get to grips with advanced Salt features. What You Will Learn Automate tasks effectively, so that your infrastructure can run itself Start building more complex concepts Master user-level internals Build scaling strategies Explore monitoring strategies Learn how to troubleshoot Salt and its subcomponents Explore best practices for Salt In Detail SaltStack is a powerful configuration management and automation suite designed to manage servers and tens of thousands of nodes. This book showcases Salt as a very powerful

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framework. We will review the fundamental concepts to get you in the right frame of mind, and then explore Salt in much greater depth. You will explore Salt SSH as a powerful tool and take Salt Cloud to the next level. Next, you'll master using Salt services with ease in your infrastructure. You will discover methods and strategies to scale your infrastructure properly. You will also learn how to use Salt as a powerful monitoring tool. By the end of this book, you will have learned troubleshooting tips and best practices to make the entire process of using Salt pain-free and

easy. Style and approach This book follows a step-by-step conversational tone. Topics are covered in detail through examples and a user-friendly approach.

Microservices using Spring Cloud computing

Jun 22 2019

Introduction to Mircoservices, will introduce you to the microservices architecture, cloud environment, etc. You will learn the difference between a microservice based application and a monolith application while also learning how to migrate to a microservices application. Spring for DevOps & Microservices, will introduce you Spring Boot framework. You will

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learn how to effectively use it to create microservice application. We will cover such topics like creating REST API using Spring MVC annotations, providing API documentation using Swagger2, and exposing health checks and metrics using Spring Boot Actuator endpoints. Spring Cloud Overview, will provide a short description of the main projects being a part of Spring Cloud. It will focus on describing the main patterns implemented by Spring Cloud and assigning them to the particular projects.

Python for DevOps Dec 21 2021 Much has changed in

Technology Book Club
Vs Chef Vs Ansible Vs Saltstack
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past decade. Data is hot, the cloud is ubiquitous, and many organizations need some form of automation. Throughout these transformations, Python has become one of the most popular languages in the world. This practical resource shows you how to use Python for everyday Linux systems administration tasks with today's most useful DevOps tools, including Docker, Kubernetes, and Terraform. Learning how to interact and automate with Linux is essential for millions of professionals. Python makes it much easier. With this book, you'll learn how to

develop software and solve problems using containers, as well as how to monitor, instrument, load-test, and operationalize your software. Looking for effective ways to "get stuff done" in Python? This is your guide. Python foundations, including a brief introduction to the language How to automate text, write command-line tools, and automate the filesystem Linux utilities, package management, build systems, monitoring and instrumentation, and automated testing Cloud computing, infrastructure as code, Kubernetes, and serverless Machine learning operations and data

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engineering from a DevOps perspective Building, deploying, and operationalizing a machine learning project

CCNA Cloud CLDADM 210-455 Official Cert

Guide Jul 24 2019 This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CCNA Cloud CLDADM 210-455 exam success with this Official Cert Guide from Pearson IT Certification, a leader in IT Certification. Master CCNA Cloud CLDADM 210-455 exam

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knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks CCNA Cloud CLDADM 210-455 Official Cert Guide is a best-of-breed exam study guide. Cisco cloud experts Chris Jackson, Hank Preston, and Steve Wasko share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of

proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time.

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The study guide helps you master all the topics on the CLDADM exam, including Cloud operating models, journeys, and roadmaps Cisco cloud automation and orchestration suites Cloud administration and operations: managing users, groups, and virtual machines Automating cloud infrastructure with UCS Director Building service catalogs and user portals Deploying virtual application containers Chargeback, billing, and reporting Performance and capacity management Cloud health monitoring and maintenance Cloud troubleshooting

Ansible PlayBook
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Essentials Feb 29 2020 Design automation blueprints using Ansible's playbooks to orchestrate and manage your multi-tier infrastructure About This Book Get to grips with Ansible's features such as orchestration, automatic node discovery, and data encryption Create data-driven, modular and reusable automation code with Ansible roles, facts, variables, and templates A step-by-step approach to automating and managing system and application configurations effectively using Ansible's playbooks Who This Book Is For If you are a systems or automation

engineer who intends to automate common infrastructure tasks, deploy applications, and use orchestration to configure systems in a co-ordinated manner, then this book is for you. Some understanding of the Linux/UNIX command line interface is expected. What You Will Learn Write simple tasks and plays Organize code into a reusable, modular structure Separate code from data using variables and Jinja2 templates Run custom commands and scripts using Ansible's command modules Control execution flow based on conditionals Integrate nodes and

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discover topology information about other nodes in the cluster Encrypt data with ansible-vault Create environments with isolated configurations to match application development workflow Orchestrate infrastructure and deploy applications in a coordinated manner In Detail Ansible combines configuration management, orchestration, and parallel command execution into a single tool. Its batteries-included approach and built-in module library makes it easy to integrate it with cloud platforms, databases, and notification services without requiring

**Additional Books from
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Saltstack Techoism Read
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Playbooks in Ansible define the policies your systems under management enforce. They facilitate effective configuration management rather than running ad hoc scripts to deploy complex applications. This book will show you how to write a blueprint of your infrastructure encompassing multi-tier applications using Ansible's playbooks. Beginning with the basic concepts such as plays, tasks, handlers, inventory, and the YAML syntax that Ansible uses, you will see how to organize your code into a modular structure. Building on this, you will master techniques to

create data-driven playbooks with variables, templates, logical constructs, and encrypted data. This book will also take you through advanced clustering concepts such as discovering topology information, managing multiple environments, and orchestration. By the end of this book, you will be able to design solutions to your automation and orchestration problems using playbooks quickly and efficiently. Style and approach This book follows a step-by-step approach, with the concepts explained in a conversational and easy-to-follow style. Each topic is explained

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sequentially in the process of creating a course. A comprehensive explanation of the basic and advanced features of Ansible playbooks is also included.

Re-Engineering Legacy Software

Oct 07 2020

Summary As a developer, you may inherit projects built on existing codebases with design patterns, usage assumptions, infrastructure, and tooling from another time and another team.

Fortunately, there are ways to breathe new life into legacy projects so you can maintain, improve, and scale them without fighting their limitations.

Purchase of the print book includes

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PDF, Kindle, and ePub formats from Manning Publications. About the Book Re-Engineering Legacy Software is an experience-driven guide to revitalizing inherited projects. It covers refactoring, quality metrics, toolchain and workflow, continuous integration, infrastructure automation, and organizational culture. You'll learn techniques for introducing dependency injection for code modularity, quantitatively measuring quality, and automating infrastructure. You'll also develop practical processes for deciding whether to rewrite or refactor,

organizing teams, and convincing management that quality matters. Core topics include deciphering and modularizing awkward code structures, integrating and automating tests, replacing outdated build systems, and using tools like Vagrant and Ansible for infrastructure automation. What's Inside Refactoring legacy codebases Continuous inspection and integration Automating legacy infrastructure New tests for old code Modularizing monolithic projects About the Reader This book is written for developers and team leads comfortable with an OO language like

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Java or C#. About the Author Chris Birchall is a senior developer at the Guardian in London, working on the back-end services that power the website. Table of Contents PART 1 GETTING STARTED Understanding the challenges of legacy projects Finding your starting point PART 2 REFACTORING TO IMPROVE THE CODEBASE Preparing to refactor Refactoring Re-architecting The Big Rewrite PART 3 BEYOND REFACTORING—IMPROVING PROJECT WORKFLOW AND INFRASTRUCTURE Automating the development environment

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automation to test, staging, and production environments Modernizing the development, building, and deployment of legacy software Stop writing legacy code!

Learn Ansible Apr 24 2022 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, ... *Innovative Security Solutions for*

Information Technology and Communications Mar 24 2022 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Conference on Security for Information Technology and Communications, SecITC 2020, held in Bucharest, Romania, in November 2020. The 17 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 41 submissions. The conference covers topics from cryptographic algorithms, to digital forensics and cyber security and much more.

NGINX Cookbook
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Mar 31 2020
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

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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
Kubernetes for Full-Stack Developers
Feb 08 2021 This book is designed to help newcomers and experienced users alike learn about Kubernetes. Its chapters are designed to introduce core Kubernetes concepts and to build on them to a level where running an application on a production cluster is a familiar, repeatable, and automated process. From there, more advanced topics are introduced, like how to manage a Kubernetes cluster itself.

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Mastering Python Networking May 14 2021 Become an expert in implementing advanced, network-related tasks with Python. About This Book Build the skills to perform all networking tasks using Python with ease Use Python for network device automation, DevOps, and software-defined networking Get practical guidance to networking with Python Who This Book Is For If you are a network engineer or a programmer who wants to use Python for networking, then this book is for you. A basic familiarity with networking-related concepts such as TCP/IP and a

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Python programming will be useful. What You Will Learn Review all the fundamentals of Python and the TCP/IP suite Use Python to execute commands when the device does not support the API or programmatic interaction with the device Implement automation techniques by integrating Python with Cisco, Juniper, and Arista eAPI Integrate Ansible using Python to control Cisco, Juniper, and Arista networks Achieve network security with Python Build Flask-based web-service APIs with Python Construct a Python-based migration plan from a legacy to scalable SDN-based

network. In Detail This book begins with a review of the TCP/ IP protocol suite and a refresher of the core elements of the Python language. Next, you will start using Python and supported libraries to automate network tasks from the current major network vendors. We will look at automating traditional network devices based on the command-line interface, as well as newer devices with API support, with hands-on labs. We will then learn the concepts and practical use cases of the Ansible framework in order to achieve your network goals. We will then move on to using Python for

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DevOps, starting with using open source tools to test, secure, and analyze your network. Then, we will focus on network monitoring and visualization. We will learn how to retrieve network information using a polling mechanism, flow-based monitoring, and visualizing the data programmatically. Next, we will learn how to use the Python framework to build your own customized network web services. In the last module, you will use Python for SDN, where you will use a Python-based controller with OpenFlow in a hands-on lab to learn its concepts and applications. We will compare and contrast

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OpenStack, OpenDaylight, and NFV. Finally, you will use everything you've learned in the book to construct a migration plan to go from a legacy to a scalable SDN-based network. Style and approach An easy-to-follow guide packed with hands-on examples of using Python for network device automation, DevOps, and SDN. **Expert Python Programming** Sep 05 2020 Refine your Python programming skills and build professional grade applications with this comprehensive guide Key Features Create manageable code that can run in various environments with

different sets of dependencies Implement effective Python data structures and algorithms to write optimized code Discover the exciting new features of Python 3.7 Book Description Python is a dynamic programming language that's used in a wide range of domains thanks to its simple yet powerful nature. Although writing Python code is easy, making it readable, reusable, and easy to maintain is challenging. Complete with best practices, useful tools, and standards implemented by professional Python developers, the third edition of Expert Python

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Programming will help you overcome this challenge. The book will start by taking you through the new features in Python 3.7. You'll then learn the advanced components of Python syntax, in addition to understanding how to apply concepts of various programming paradigms, including object-oriented programming, functional programming, and event-driven programming. This book will also guide you through learning the best naming practices, writing your own distributable Python packages, and getting up to speed with

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deploying your software on remote servers. You'll discover how to create useful Python extensions with C, C++, Cython, and CFFI. Furthermore, studying about code management tools, writing clear documentation, and exploring test-driven development will help you write clean code. By the end of the book, you will have become an expert in writing efficient and maintainable Python code. What you will learnExplore modern ways of setting up repeatable and consistent development environmentsPackage Python code effectively for community and

production useLearn modern syntax elements of Python programming such as f-strings, enums, and lambda functionsDemystify metaprogramming in Python with metaclassesWrite concurrent code in PythonExtend Python with code written in different languagesIntegrate Python with code written in different languagesWho this book is for This book will appeal to you if you're a programmer looking to take your Python knowledge to the next level by writing efficient code and learning the latest features of version 3.7 and above.

Continuous Delivery 2.0 Dec 29 2019 The agile
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transformation is an act of transforming an organization's form or nature gradually to one that can embrace and thrive in a flexible, collaborative, self-organizing, and fast-changing environment. It seems like most of the companies starting an agile transformation never reach the goal of agility, but there are those few that truly become agile and reap incredible benefits by utilizing DevOps as well. This book introduces the theory and practice of the "double-flywheels model" of Continuous Delivery 2.0: Discovery Loop, which allows information

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organizations to help businesses figure out the most efficacious ways to develop. Additionally, it explores applications of the Verification Loop that allows IT organizations to deliver value quickly and safely with high quality. Along the way, the book provides an array of insights and case studies that dive into all the aspects of software delivery, and how to implement Continuous Delivery in the most economical way for long-run business development. Features Organization culture and software architecture Business requirement

management Pipeline and tooling Branching and releasing strategy Automation strategy Configuration and artefacts management Deployment and production healthy The case studies at the end of the book—scenarios in which the author was personally involved—are explored in depth and meticulously detailed in order to represent typical agile transition scenarios that will benefit all readers. *Terraform: Up & Running* Sep 29 2022 Terraform has become a key player in the DevOps world for defining, launching, and managing infrastructure as code (IaC) across a

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variety of cloud and virtualization platforms, including AWS, Google Cloud, Azure, and more. This hands-on second edition, expanded and thoroughly updated for Terraform version 0.12 and beyond, shows you the fastest way to get up and running. Gruntwork cofounder Yevgeniy (Jim) Brikman walks you through code examples that demonstrate Terraform's simple, declarative programming language for deploying and managing infrastructure with a few commands. Veteran sysadmins, DevOps engineers, and novice developers will quickly go from

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running a full stack that can support a massive amount of traffic and a large team of developers. Explore changes from Terraform 0.9 through 0.12, including backends, workspaces, and first-class expressions Learn how to write production-grade Terraform modules Dive into manual and automated testing for Terraform code Compare Terraform to Chef, Puppet, Ansible, CloudFormation, and Salt Stack Deploy server clusters, load balancers, and databases Use Terraform to manage the state of your infrastructure Create reusable infrastructure with Terraform modules

Use advanced Terraform syntax to achieve zero-downtime deployment [DEVOPS USING SPRING CLOUD AND NETFLIX](#) Jul 04 2020 Chapter 1, Introduction to DevOps, will introduce you to the microservices architecture, cloud environment, etc. You will learn the difference between a microservice based application and a monolith application while also learning how to migrate to a microservices application. Chapter 2, Spring for DevOps & Microservices, will introduce you Spring Boot framework. You will learn how to effectively use it to create microservice

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application. We will cover such topics like creating REST API using Spring MVC annotations, providing API documentation using Swagger2, and exposing health checks and metrics using Spring Boot Actuator endpoints. Chapter 3, Spring Cloud Overview, will provide a short description of the main projects being a part of Spring Cloud. It will focus on describing the main patterns implemented by Spring Cloud and assigning them to the particular projects. Chapter 4, Service Discovery, will describe a service discovery pattern with Spring Cloud Netflix Eureka. You will learn how to run

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standalone mode and how to run multiple server instances with peer-to-peer replication. You will also learn how to enable discovery on the client side and register these clients in different zones. Chapter 5, Distributed Configuration with Spring Cloud Config, will describe how use distributed configuration with Spring Cloud Config in your applications. You will learn how to enable different backend repositories of property sources and push change notifications using Spring Cloud Bus. We will compare discovery first bootstrap and config first

bootstrap approaches to illustrate integration between discovery service and configuration server. Chapter 6, Communication Between Microservices, will describe the most important elements taking a part in an inter-service communication: HTTP clients and load balancers. You will learn how to use Spring RestTemplate, Ribbon, and Feign clients with or without service discovery. Chapter 7, Advanced Load Balancing and Circuit Breakers, will described more advanced topics related to inter-service communication between microservices. You

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will learn how to implement different load balancing algorithms with Ribbon client, enabling circuit breaker pattern using Hystrix and using Hystrix dashboard to monitor communication statistics. Chapter 8, Routing and Filtering with API Gateway, will compare two projects used as an API gateway and proxy for Spring Cloud applications: Spring Cloud Netlix Zuul and Spring Cloud Gateway. You will learn how to integrate them with service discovery and create simple and more advanced routing and filtering rules.

Chapter 9, Distributed Logging

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introduce some popular tools for collecting and analyzing logging and tracing information generated by microservices. You will learn how to use Spring Cloud Sleuth to append tracing information and correlating messages. We will run sample applications that integrates with Elastic Stack in order to sent there log messages, and Zipkin to collect traces. Chapter 10, Additional Configuration and Discovery Features, will introduce two popular products used for service discovery and distributed configuration: Consul and ZooKeeper. You will learn how to run

these tools locally, and intergrate your Spring Cloud applications with them. Chapter 11, Message-Driven Microservices, will guide you how to provide asynchronous, message-driven communication between your microservices. You will learn how to integrate RabbitMQ and Apache Kafka message brokers with your Spring Cloud application to enable asynchronous one-to-one and publish/subscribe communication styles. Chapter 12, Securing an API, will describe varius ways of securing your microservices. We will implement a system consisting of all previously introduced

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elements, that communicates with each other over SSL. You will also learn how to use OAuth2 and JWT token to authorize requests coming to your API. Chapter 13, Testing Java Microservices, will describe different strategies of microservices testing. It will focus on showing consumer-driven contract tests, especially useful in microservice-based environment. You will how to use such frameworks like Hoverfly, Pact, Spring Cloud Contract, Gatling for implementing different types of automated tests. Chapter 14, Docker Support, will provide a short introduction to

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on describing most commonly used Docker commands, which are used for running and monitoring microservices in containerized environment. You will also learn how to build and run containers using popular continuous integration server - Jenkins, and deploy them on Kubernetes platform. Chapter 15, Spring Microservices on Cloud Platforms, will introduce two popular cloud platforms that support Java applications: Pivotal Cloud Foundry and Heroku. You will learn how to deploy, start, scale and monitor your applications on these platforms using command-line tools or web

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console.

[Learning SaltStack](#)

Oct 31 2022 If you are a system administrator who manages multiple servers, then you know how difficult it is to keep your infrastructure in line. If you've been searching for an easier way, this book is for you. No prior experience with SaltStack is required.

[Deployment with Docker](#) Jan 10 2021

A practical guide to rapidly and efficiently mastering Docker containers, along with tips and tricks learned in the field. About This Book Use Docker containers, horizontal node scaling, modern orchestration tools (Docker Swarm, Kubernetes, and

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Mesos) and Continuous Integration/Continuous Delivery to manage your infrastructure. Increase service density by turning often-idle machines into hosts for numerous Docker services. Learn what it takes to build a true container infrastructure that is scalable, reliable, and resilient in the face of increased complexities from using container infrastructures. Find out how to identify, debug, and mitigate most real-world, undocumented issues when deploying your own Docker infrastructure. Learn tips and tricks of the trade

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Docker infrastructures running in production environments. Who This Book Is For This book is aimed at system administrators, developers, DevOps engineers, and software engineers who want to get concrete, hands-on experience deploying multi-tier web applications and containerized microservices using Docker. This book is also for anyone who has worked on deploying services in some fashion and wants to take their small-scale setups to the next level (or simply to learn more about the process). What You Will Learn Set up a working development environment and

create a simple web service to demonstrate the basics Learn how to make your service more usable by adding a database and an app server to process logic Add resilience to your services by learning how to horizontally scale with a few containers on a single node Master layering isolation and messaging to simplify and harden the connectivity between containers Learn about numerous issues encountered at scale and their workarounds, from the kernel up to code versioning Automate the most important parts of your infrastructure with continuous integration In Detail Deploying Docker into

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production is considered to be one of the major pain points in developing large-scale infrastructures, and the documentation available online leaves a lot to be desired. With this book, you will learn everything you wanted to know to effectively scale your deployments globally and build a resilient, scalable, and containerized cloud platform for your own use. The book starts by introducing you to the containerization ecosystem with some concrete and easy-to-digest examples; after that, you will delve into examples of launching multiple instances of the same container.

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will cover orchestration, multi-node setups, volumes, and almost every relevant component of this new approach to deploying services. Using intertwined approaches, the book will cover battle-tested tooling, or issues likely to be encountered in real-world scenarios, in detail. You will also learn about the other supporting components required for a true PaaS deployment and discover common options to tie the whole infrastructure together. At the end of the book, you learn to build a small, but functional, PaaS (to appreciate the

power of the containerized service approach) and continue to explore real-world approaches to implementing even larger global-scale services. Style and approach This in-depth learning guide shows you how to deploy your applications in production using Docker (from the basic steps to advanced concepts) and how to overcome challenges in Docker-based infrastructures. The book also covers practical use-cases in real-world examples, and provides tips and tricks on the various topics.

[Python Network Programming](#) Dec 09 2020 Power up your network
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applications with Python programming Key Features Master Python skills to develop powerful network applications Grasp the fundamentals and functionalities of SDN Design multi-threaded, event-driven architectures for echo and chat servers Book Description This Learning Path highlights major aspects of Python network programming such as writing simple networking clients, creating and deploying SDN and NFV systems, and extending your network with Mininet. You'll also learn how to automate legacy and the latest

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you progress through the chapters, you'll use Python for DevOps and open source tools to test, secure, and analyze your network. Toward the end, you'll develop client-side applications, such as web API clients, email clients, SSH, and FTP, using socket programming. By the end of this Learning Path, you will have learned how to analyze a network's security vulnerabilities using advanced network packet capture and analysis techniques. This Learning Path includes content from the following Packt products: Practical Network Automation by Abhishek Ratan

Mastering Python Networking by Eric Chou Python Network Programming Cookbook, Second Edition by Pradeeban Kathiravelu, Dr. M. O. Faruque Sarker What you will learn Create socket-based networks with asynchronous models Develop client apps for web APIs, including S3 Amazon and Twitter Talk to email and remote network servers with different protocols Integrate Python with Cisco, Juniper, and Arista eAPI for automation Use Telnet and SSH connections for remote system monitoring Interact with websites via XML-RPC, SOAP,

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and REST APIs Build networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Configure virtual networks in different deployment environments Who this book is for If you are a Python developer or a system administrator who wants to start network programming, this Learning Path gets you a step closer to your goal. IT professionals and DevOps engineers who are new to managing network devices or those with minimal experience looking to expand their knowledge and skills in Python will also find this Learning Path

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prior knowledge of networking is not required, some experience in Python programming will be helpful for a better understanding of the concepts in the Learning Path. Terraform in Action Jun 14 2021 Terraform in Action shows you how to automate and scale infrastructure programmatically using the Terraform toolkit. Summary In Terraform in Action you will learn: Cloud architecture with Terraform Terraform module sharing and the private module registry Terraform security in a multitenant environment Strategies for performing blue/green

deployments Refactoring for code maintenance and reusability Running Terraform at scale Creating your own Terraform provider Using Terraform as a continuous development/continuous delivery platform Terraform in Action introduces the infrastructure-as-code (IaC) model that lets you instantaneously create new components and respond efficiently to changes in demand. You'll use the Terraform automation tool to design and manage servers that can be provisioned, shared, changed, tested, and deployed with a single command. Purchase of the print book includes

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a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Provision, deploy, scale, and clone your entire stack to the cloud at the touch of a button. In Terraform, you create a collection of simple declarative scripts that define and manage application infrastructure. This powerful infrastructure-as-code approach automates key tasks like versioning and testing for everything from low-level networking to cloud services. About the book Terraform in Action shows you how to automate and scale

Infrastructure Ebook Puppet Vs Chef Vs Ansible Vs Saltstack Techoism Read Pdf Free

programmatically using the Terraform toolkit. Using practical, relevant examples, you'll use Terraform to provision a Kubernetes cluster, deploy a multiplayer game, and configure other hands-on projects. As you progress to advanced techniques like zero-downtime deployments, you'll discover how to think in Terraform rather than just copying and pasting scripts. What's inside Cloud architecture with Terraform Terraform module sharing and the private module registry Terraform security in a multitenant environment Strategies for performing

blue/green deployments About the reader For readers experienced with a major cloud platform such as AWS. Examples in JavaScript and Golang. About the author Scott Winkler is a DevOps engineer and a distinguished Terraform expert. He has spoken multiple times at HashiTalks and HashiConf, and was selected as a HashiCorp Ambassador and Core Contributor in 2020. Table of Contents PART 1 TERRAFORM BOOTCAMP 1 Getting started with Terraform 2 Life cycle of a Terraform resource 3 Functional programming 4 Deploying a multi-

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tiered web application in AWS PART 2

TERRAFORM IN THE WILD 5 Serverless made easy 6 Terraform with friends 7 CI/CD pipelines as code 8 A multi-cloud MMORPG PART 3

MASTERING TERRAFORM 9 Zero-downtime deployments 10 Testing and refactoring 11 Extending Terraform by writing a custom provider 12 Automating Terraform 13 Security and secrets management

CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert

Guide Nov 19 2021 Trust the best-

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Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam.

* Master Cisco CCNP/CCIE ENCOR exam topics * Assess your knowledge with chapter-opening quizzes * Review key concepts with exam preparation tasks This is the eBook edition of the CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide. This eBook does not include access to the Pearson Test Prep practice exams that comes with the print

edition. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide focuses specifically on the objectives

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for the Cisco CCNP/CCIE ENCOR 350-401 exam. Networking experts Brad Edgeworth, Ramiro Garza Rios, Dave Hucaby, and Jason Gooley share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. This complete study package includes* A test-preparation routine proven to help you pass the exams * Do I Know This Already? quizzes, which

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decide how much time you need to spend on each section * Chapter-ending exercises, which help you drill on key concepts you must know thoroughly * Practice exercises that help you enhance your knowledge * More than 90 minutes of video mentoring from the author * A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies * Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, assessment features, comprehensive

design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCNP/CCIE ENCOR exam, including * Enterprise network architecture * Virtualization * Network assurance * Security * Automation

Ansible: Up and Running Jun 02 2020 Among the many configuration management tools available, Ansible has some distinct advantages—it's minimal in nature, you don't need to
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install anything on your nodes, and it has an easy learning curve. This practical guide shows you how to be productive with this tool quickly, whether you're a developer deploying code to production or a system administrator looking for a better automation solution. Author Lorin Hochstein shows you how to write playbooks (Ansible's configuration management scripts), manage remote servers, and explore the tool's real power: built-in declarative modules. You'll discover that Ansible has the functionality you need and the simplicity you

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how Ansible differs from other configuration management systems Use the YAML file format to write your own playbooks Learn Ansible's support for variables and facts Work with a complete example to deploy a non-trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with ssh multiplexing, pipelining, and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to create Docker images and deploy Docker containers *Testing Node.js Applications* Jan 22 2022 Testing Node.js

Applications is a companion to writing quality code. It is suitable to have to those tasked to modernize aging node.js stacks, those willing to improve code quality, and those wanting to test without sacrificing time to market. The best practice described in here, are backed by 10+ years experience developing and delivering data driven applications, sometimes, deployed at scale. [SELinux System Administration](#) Sep 17 2021 Enhance Linux security, application platforms, and virtualization solutions with SELinux 3 to work within your boundaries, your

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rules, and your policies Key Features Learn what SELinux is, and how it acts as a mandatory access control system on Linux Apply and tune SELinux enforcement to users, applications, platforms, and virtualization solutions Use real-life examples and custom policies to strengthen the security posture of your systems Book Description Linux is a dominant player in many organizations and in the cloud. Securing the Linux environment is extremely important for any organization, and Security-Enhanced Linux (SELinux) acts as an additional layer to

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security. SELinux System Administration covers basic SELinux concepts and shows you how to enhance Linux system protection measures. You will get to grips with SELinux and understand how it is integrated. As you progress, you'll get hands-on experience of tuning and configuring SELinux and integrating it into day-to-day administration tasks such as user management, network management, and application maintenance. Platforms such as Kubernetes, system services like systemd, and virtualization solutions like libvirt

and Xen, all of which offer SELinux-specific controls, will be explained effectively so that you understand how to apply and configure SELinux within these applications. If applications do not exert the expected behavior, you'll learn how to fine-tune policies to securely host these applications. In case no policies exist, the book will guide you through developing custom policies on your own. By the end of this Linux book, you'll be able to harden any Linux system using SELinux to suit your needs and fine-tune existing policies and develop custom ones to protect any

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app and service running on your Linux systems. What you will learn Understand what SELinux is and how it is integrated into Linux Tune Linux security using policies and their configurable settings Manage Linux users with least-privilege roles and access controls Use SELinux controls in system services and virtualization solutions Analyze SELinux behavior through log events and policy analysis tools Protect systems against unexpected and malicious behavior Enhance existing policies or develop custom ones Who this book is for This Linux

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for Linux administrators who want to control the secure state of their systems using SELinux, and for security professionals who have experience in maintaining a Linux system and want to know about SELinux. Experience in maintaining Linux systems, covering user management, software installation and maintenance, Linux security controls, and network configuration is required to get the most out of this book.

Customizing Chef

Nov 27 2019 Take advantage of Chef's highly customizable design to tackle specific automation issues that you can't solve by

simply using Chef's tools, resources, and services out of the box. With this practical guide, you'll examine the internal structure of this configuration management technology and learn where, how, and why to add custom code. Author Jon Cowie not only provides code snippets and practical advice for customizing Chef, but also helps you determine case by case whether it's in your best interests to customize at all. If you have intermediate-to-advanced Chef experience, this book is indispensable. Explore Chef's typical setups and why you'd want to customize them Learn the Ruby **Download Ebook fasttrack.hk on December 1, 2022 Read Pdf Free**

concepts needed to write customizations
Customize the Chef run process and explore Chef's internal classes
Gain more insight into your Chef runs through handlers and Chef's event stream
Level up your Chef recipes by writing your own resources and providers
Create and extend plugins for Knife—Chef's command-line tool
Interact with the Chef API to write scripts and reports
Learn how to contribute customizations to the Chef community

Learning DevOps
Jan 28 2020
Simplify your DevOps roles with DevOps tools and techniques
Key Features
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resources effectively to increase productivity and collaboration
Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD)
Ensure faster time-to-market by reducing overall lead time and deployment downtime
Book Description
The implementation of DevOps processes requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns

and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll

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learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. 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: Become well versed with DevOps

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practices Use Terraform and Packer for cloud infrastructure provisioning Implement Ansible for infrastructure configuration Use basic Git commands and understand the Git flow process Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI Containerize your applications with Docker and Kubernetes Check application quality with SonarQube and Postman Protect DevOps processes and applications using DevSecOps tools Who this book is for If you are a developer or a system administrator interested in understanding

continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

Software Source Code May 26 2022 This book will focus on utilizing statistical modelling of the software source code, in order to resolve issues associated with the software development processes. Writing and maintaining software source code is a costly business; software developers need to constantly rely on large existing code bases. Statistical modelling identifies the patterns in software artifacts and utilize them for predicting the possible issues.

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