
Ansible Automation For Everyone

Security Automation with Ansible 2
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Red Hat Ansible Automation Platform
Infrastructure as Code (IAC) Cookbook
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The Site Reliability Workbook
Network Automation Made Easy

RICHARD PRESTON

Security Automation with Ansible 2 Packt Publishing Ltd

Based on open source principles of transparency, participation, and collaboration, "open management" challenges conventional business ideas about what companies are, how they run, and how they make money. This book provides the blueprint for putting it into practice in your own firm. He covers challenges that have been missing from the conversation to date, among them: how to scale engagement; how to have healthy debates that net progress; and how to attract and keep the "Social Generation" of workers. Through a mix of vibrant stories, candid lessons, and tested processes, Whitehurst shows how Red Hat has blown the traditional operating model to pieces by emerging out of a pure bottom up culture and learning how to execute it at scale. And he explains what other companies are, and need to be doing to bring this open style into all facets of the organization.

Red Hat RHCSA 8 Cert Guide "O'Reilly Media, Inc."

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.

Red Hat Ansible Automation Platform Apress

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 Infrastructure as Code (IAC) Cookbook Packt Publishing Ltd

Modernization of enterprise IT applications and infrastructure is key to the survival of organizations. It is no longer a matter of choice. The cost of missing out on business opportunities in an intensely competitive market can be enormous. To aid in their success, organizations are facing increased encouragement to embrace change. They are pushed to think of new and innovative ways to counter, or offer, a response to threats that are posed by competitors who are equally as aggressive in adopting newer methods and technologies. The term modernization often varies in meaning based on perspective. This IBM® Redbooks® publication focuses on the technological advancements that unlock computing environments that are hosted on IBM Z® to enable secure processing at the core of hybrid. This publication is intended for IT executives, IT managers, IT architects, System Programmers, and Application Developer professionals.

Mastering Ansible IT Revolution

* Covers low-level networking in Python —essential for writing a new networked application protocol.

* Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. * Networked application security is demystified. * Exhibits and explains multitasking network servers using several models, including forking, threading, and non-blocking sockets. * Features extensive coverage of Web and E-mail. Describes Python's database APIs.

Infrastructure as Code Packt Publishing Ltd

Left hand column Explore modern use cases for network automation, and compare today's most widely used automation tools Capture essential data for use in network automation, using standard formats such as JSON, XML, and YAML Get more value from the data your network can capture Install Ansible and master its building blocks, including plays, tasks, modules, variables, conditionals, loops, and roles Perform common networking tasks with Ansible playbooks: manage files, devices, VMs, cloud constructs, APIs, and more See how Ansible can be used to automate even the largest global network architectures Discover how NetDevOps can transform your approach to automation--and create a new NetDevOps pipeline, step by step Build a network automation strategy from the ground up, reflecting lessons from the world's largest enterprises This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. Right hand column Practical strategies and techniques for automating network infrastructure As networks grow ever more complex, network professionals are seeking to automate processes for configuration, management, testing, deployment, and operation. Using automation, they aim to lower expenses, improve productivity, reduce human error, shorten time to market, and improve agility. In this guide, expert practitioner Ivo Pinto presents all the concepts and techniques you'll need to move your entire physical and virtual infrastructure towards greater automation, and maximize the value it delivers. Writing for experienced professionals, Ivo Pinto reviews today's leading use cases for automation, compares leading tools, and presents a deep dive into using the open source Ansible engine to automate common tasks. You'll find everything you need: from practical code snippets to real-world case studies to a complete methodology for planning strategy. This guide is for everyone seeking to improve network operations and productivity, including system, network, storage, and virtualization administrators, network and security engineers, and many other technical professionals and managers. You can apply its vendor-neutral concepts throughout your entire environment--from servers to the cloud, switches to security.

Mastering Ansible "O'Reilly Media, Inc."

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

orchestration tool Streamlining your cloud workflow Docker in swarm mode Emerging best practices and techniques About the Reader Written for developers and engineers using Docker in production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies. Table of Contents PART 1 - DOCKER FUNDAMENTALS Discovering Docker Understanding Docker: Inside the engine room PART 2 - DOCKER AND DEVELOPMENT Using Docker as a lightweight virtual machine Building images Running containers Day-to-day Docker Configuration management: Getting your house in order PART 3 - DOCKER AND DEVOPS Continuous integration: Speeding up your development pipeline Continuous delivery: A perfect fit for Docker principles Network simulation: Realistic environment testing without the pain PART 4 - ORCHESTRATION FROM A SINGLE MACHINE TO THE CLOUD A primer on container orchestration The data center as an OS with Docker Docker platforms PART 5 - DOCKER IN PRODUCTION Docker and security Plain sailing: Running Docker in production Docker in production: Dealing with challenges

Network Programmability and Automation Packt Publishing Ltd

Ansible is a simple, but powerful, server and configuration management tool. Learn to use Ansible effectively, whether you manage one server--or thousands.

Docker in Practice, Second Edition BPB Publications

Learn how to work with the Automate feature of CloudForms, the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure, including hybrid public and private clouds. This practical hands-on introduction shows you how to increase your operational efficiency by automating day-to-day tasks that now require manual input. Throughout the book, author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model. With this CloudForms feature, you can create auto-scalable cloud applications, eliminate manual decisions and operations when provisioning virtual machines and cloud instances, and manage your complete virtual machine lifecycle. In six parts, this book helps you: Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs, items, dialogs, objects, bundles, and hierarchies Use CloudForm's updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling

[pytest Quick Start Guide](#) Packt Publishing Ltd

Master Ansible Automation and learn how to automate your apps deployment and IT infrastructure operations. Ansible is one of the most popular DevOps tools available in the IT market. Key Features Run Ansible Ad-Hoc commands. Deploy Files with Jinja2 templates. Create and run Ansible Playbooks. Use Ansible Vault to protect sensitive information. Use Ansible Galaxy to install and use Ansible roles. Learn various Ansible troubleshooting techniques. Book Description Learn Ansible Quickly is a fully practical hands-on guide for learning Ansible Automation. It will get you up and running with Ansible in no time. First, you will break the ice with Ansible by running very simple Ad-Hoc commands. Then, you will dive into the world of Ansible playbooks, variables, facts, registers, and loops. Also, you will learn how to use conditional statements in your Ansible playbooks.

Moreover, you will explore how to use blocks to handle exceptions and failures in Ansible. In addition, you will get to install and use Ansible roles, so your playbooks look clean and unrepentive. Finally, you will learn various troubleshooting techniques in Ansible. By the end of this book, you will have all the skills necessary to develop state-of-the-art Ansible playbooks that can automate any repetitive task you may encounter while working on Linux systems. What you will learn Run Ansible Ad-Hoc commands and Playbooks. Understand how to work with Ansible variables, Facts, Registers, and Loops. Make your Ansible Playbooks smarter with conditional statements. Use Blocks to handle exceptions and failures. Use Handlers to trigger tasks upon change. Who This Book Is For This book is an amazing preparation guide for anyone who wants to pass the EX294 certification exam and become a Red Hat Certified Engineer (RHCE). If you are tired of spending countless hours doing the same tedious task on Linux over and over again then this book is for you! Learn Ansible Quickly will teach you all the skills you need to automate boring tasks in Linux. You will be much more efficient working on Linux after reading this book, more importantly, you will get more sleep, I promise you! Learn Ansible Quickly does not assume prior Linux knowledge (RHCSA Level) and that you have experience working on the Linux command line. Table of Contents Hello Ansible Running Ad-Hoc Commands Ansible Playbooks Ansible Variables, Facts, and Registers Ansible Loops Decision Making in Ansible Jinja2 Templates Ansible Vault Ansible Roles RHEL System Roles Managing Systems with Ansible Ansible Troubleshooting Final Sample Exam Knowledge Check Solutions

Learning Ansible BPB Publications

Virtualization, cloud, containers, server automation, and software-defined networking are meant to simplify IT operations. But many organizations adopting these technologies have found that it only leads to a faster-growing sprawl of unmanageable systems. This is where infrastructure as code can help. With this practical guide, author Kief Morris of ThoughtWorks shows you how to effectively use principles, practices, and patterns pioneered through the DevOps movement to manage cloud-age infrastructure. Ideal for system administrators, infrastructure engineers, team leads, and architects, this book demonstrates various tools, techniques, and patterns you can use to implement infrastructure as code. In three parts, you'll learn about the platforms and tooling involved in creating and configuring infrastructure elements, patterns for using these tools, and practices for making infrastructure as code work in your environment. Examine the pitfalls that organizations fall into when adopting the new generation of infrastructure technologies Understand the capabilities and service models of dynamic infrastructure platforms Learn about tools that provide, provision, and configure core infrastructure resources Explore services and tools for managing a dynamic infrastructure Learn specific patterns and practices for provisioning servers, building server templates, and updating running servers

Day One "O'Reilly Media, Inc."

Explore Ansible Automation Platform and understand how the different pieces interact to standardize and scale automation Key Features Curated by a senior consultant at Red Hat with real-world examples to maximize use of Ansible Automation Platform Use roles and modules to create interactive playbooks in Ansible Automation Platform Discover best practices for simplifying management of Ansible Automation Platform Book Description While you can use any automation software to simplify task automation, scaling automation to suit your growing business needs

becomes difficult using only a command-line tool. Ansible Automation Platform standardizes how automation is deployed, initiated, delegated, and audited, and this comprehensive guide shows you how you can simplify and scale its management. The book starts by taking you through the ways to get Ansible Automation Platform installed, their pros and cons, and the initial configuration. You'll learn about each object in the platform, how it interacts with other objects, as well as best practices for defining and managing objects to save time. You'll see how to maintain the created pieces with infrastructure as code. As you advance, you'll monitor workflows with CI/CD playbooks and understand how Ansible Automation Platform integrates with many other services such as GitLab and GitHub. By the end of this book, you'll have worked through real-world examples to make the most of the platform while learning how to manipulate, manage, and deploy any playbook to Ansible Automation Platform. What you will learn Get the hang of different parts of Ansible Automation Platform and their maintenance Back up and restore an installation of Ansible Automation Platform Launch and configure basic and advanced workflows and jobs Create your own execution environment using CI/CD pipelines Interact with Git, Red Hat Authentication Server, and logging services Integrate the Automation controller with services catalog Use Automation Mesh to scale Automation Controller Who this book is for This book is for IT administrators, DevOps engineers, cloud engineers, and automation engineers seeking to understand and maintain the controller part of Ansible Automation Platform. If you have basic knowledge of Ansible, can set up a virtual machine, or have OpenShift experience, and want to know more about scaling Ansible, this book is for you.

Getting Started: Journey to Modernization with IBM Z Packt Publishing

This book is the "Hello, World" tutorial for building products, technologies, and teams in a startup environment. It's based on the experiences of the author, Yevgeniy (Jim) Brikman, as well as interviews with programmers from some of the most successful startups of the last decade, including Google, Facebook, LinkedIn, Twitter, GitHub, Stripe, Instagram, AdMob, Pinterest, and many others. Hello, Startup is a practical, how-to guide that consists of three parts: Products, Technologies, and Teams. Although at its core, this is a book for programmers, by programmers, only Part II (Technologies) is significantly technical, while the rest should be accessible to technical and non-technical audiences alike. If you're at all interested in startups—whether you're a programmer at the beginning of your career, a seasoned developer bored with large company politics, or a manager looking to motivate your engineers—this book is for you.

Learn Ansible Pearson IT Certification

In 2016, Google's Site Reliability Engineering book ignited an industry discussion on what it means to run production services today—and why reliability considerations are fundamental to service design. Now, Google engineers who worked on that bestseller introduce The Site Reliability Workbook, a hands-on companion that uses concrete examples to show you how to put SRE principles and practices to work in your environment. This new workbook not only combines practical examples from Google's experiences, but also provides case studies from Google's Cloud Platform customers who underwent this journey. Evernote, The Home Depot, The New York Times, and other companies outline hard-won experiences of what worked for them and what didn't. Dive into this workbook and learn how to flesh out your own SRE practice, no matter what

size your company is. You'll learn: How to run reliable services in environments you don't completely control like cloud Practical applications of how to create, monitor, and run your services via Service Level Objectives How to convert existing ops teams to SRE including how to dig out of operational overload Methods for starting SRE from either greenfield or brownfield
Introduction to Python Network Automation Simon and Schuster

A practical guide to making the best use of the OpenShift container platform based on the real-life experiences, practices, and culture within Red Hat Open Innovation Labs Key Features Learn how modern software companies deliver business outcomes that matter by focusing on DevOps culture and practices Adapt Open Innovation Labs culture and foundational practices from the Open Practice Library Implement a metrics-driven approach to application, platform, and product, understanding what to measure and how to learn and pivot Book Description DevOps Culture and Practice with OpenShift features many different real-world practices - some people-related, some process-related, some technology-related - to facilitate successful DevOps, and in turn OpenShift, adoption within your organization. It introduces many DevOps concepts and tools to connect culture and practice through a continuous loop of discovery, pivots, and delivery underpinned by a foundation of collaboration and software engineering. Containers and container-centric application lifecycle management are now an industry standard, and OpenShift has a leading position in a flourishing market of enterprise Kubernetes-based product offerings. DevOps Culture and Practice with OpenShift provides a roadmap for building empowered product teams within your organization. This guide brings together lean, agile, design thinking, DevOps, culture, facilitation, and hands-on technical enablement all in one book. Through a combination of real-world stories, a practical case study, facilitation guides, and technical implementation details, DevOps Culture and Practice with OpenShift provides tools and techniques to build a DevOps culture within your organization on Red Hat's OpenShift Container Platform. What you will learn Implement successful DevOps practices and in turn OpenShift within your organization Deal with segregation of duties in a continuous delivery world Understand automation and its significance through an application-centric view Manage continuous deployment strategies, such as A/B, rolling, canary, and blue-green Leverage OpenShift's Jenkins capability to execute continuous integration pipelines Manage and separate configuration from static runtime software Master communication and collaboration enabling delivery of superior software products at scale through continuous discovery and continuous delivery Who this book is for This book is for anyone with an interest in DevOps practices with OpenShift or other Kubernetes platforms. This DevOps book gives software architects, developers, and infra-ops engineers a practical understanding of OpenShift, how to use it efficiently for the effective deployment of application architectures, and how to collaborate with users and stakeholders to deliver business-impacting outcomes.

[Engineering DevOps](#) Independently Published

Design, develop, and solve real world automation and orchestration needs by unlocking the automation capabilities of Ansible About This Book Discover how Ansible works in detail Explore use cases for Ansible's advanced features including task delegation, fast failures, and serial task execution Extend Ansible with custom modules, plugins, and inventory sources Who This Book Is For This book is intended for Ansible developers and operators who have an understanding of the core

elements and applications but are now looking to enhance their skills in applying automation using Ansible. What You Will Learn Understand Ansible's code and logic flow Safeguard sensitive data within Ansible Access and manipulate complex variable data within Ansible playbooks Handle task results to manipulate change and failure definitions Organize Ansible content into a simple structure Craft a multi-tier rollout playbook utilizing load balancers and manipulating your monitoring system Utilize advanced Ansible features to orchestrate rolling updates with almost no service disruptions Troubleshoot Ansible failures to understand and resolve issues Extend Ansible with custom modules, plugins, or inventory sources In Detail Automation is critical to success in the world of DevOps. How quickly and efficiently an application deployment can be automated, or a new infrastructure can be built up, can be the difference between a successful product or a failure. Ansible provides a simple yet powerful automation engine. Beyond the basics of Ansible lie a host of advanced features which are available to help you increase efficiency and accomplish complex orchestrations with ease. This book provides you with the knowledge you need to understand how Ansible works at a fundamental level and leverage its advanced capabilities. You'll learn how to encrypt Ansible content at rest and decrypt data at runtime. You will master the advanced features and capabilities required to tackle the complex automation challenges of today and beyond. You will gain detailed knowledge of Ansible workflows, explore use cases for advanced features, craft well thought out orchestrations, troubleshoot unexpected behaviour, and extend Ansible through customizations. Finally, you will discover the methods used to examine and debug Ansible operations, helping you to understand and resolve issues. Style and approach A clear, practical guide that covers best practise, system architecture and design aspects that will help you master Ansible with ease.

The Phoenix Project Bookbaby

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.

Automate Your Network: Introducing the Modern Approach to Enterprise Network Management
"O'Reilly Media, Inc."

Over a half-million sold! And available now, the Wall Street Journal Bestselling sequel *The Unicorn Project* "Every person involved in a failed IT project should be forced to read this book."—TIM O'REILLY, Founder & CEO of O'Reilly Media "The Phoenix Project is a must read for business and IT executives who are struggling with the growing complexity of IT."—JIM WHITEHURST, President and CEO, Red Hat, Inc. Five years after this sleeper hit took on the world of IT and flipped it on its head, the 5th Anniversary Edition of *The Phoenix Project* continues to guide IT in the DevOps revolution. In this newly updated and expanded edition of the bestselling *The Phoenix Project*, co-author Gene Kim includes a new afterword and a deeper delve into the Three Ways as described in *The DevOps Handbook*. Bill, an IT manager at Parts Unlimited, has been tasked with taking on a project critical to the future of the business, code named Phoenix Project. But the project is massively over budget and behind schedule. The CEO demands Bill must fix the mess in ninety days or else Bill's entire department will be outsourced. With the help of a prospective board member and his mysterious philosophy of The Three Ways, Bill starts to see that IT work has more in common with a manufacturing plant work than he ever imagined. With the clock ticking, Bill must organize work flow streamline interdepartmental communications, and effectively serve the other business functions at Parts Unlimited. In a fast-paced and entertaining style, three luminaries of the DevOps movement deliver a story that anyone who works in IT will recognize. Readers will not only learn how to improve their own IT organizations, they'll never view IT the same way again. "This book is a gripping read that captures brilliantly the dilemmas that face companies which depend on IT, and offers real-world solutions."—JEZ HUMBLE, Co-author of *Continuous Delivery*, *Lean Enterprise*, *Accelerate*, and *The DevOps Handbook*

Hello, Startup Packt Publishing Ltd

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

Ansible Packt Publishing Ltd

Design, develop, and solve real-world automation and orchestration problems by unlocking Ansible's automation capabilities Key Features Completely revised and updated for Ansible 4.0 and beyond Tackle complex automation challenges with the newly added features in Ansible Learn about the rapidly expanding field of network automation using Ansible, with the help of practical examples for configuring network devices Book Description Ansible is a modern, YAML-based automation tool (built on top of Python, one of the world's most popular programming languages) with a massive and ever-growing user base. Its popularity and Python underpinnings make it essential learning for all in the DevOps space. This fourth edition of *Mastering Ansible* provides complete coverage of Ansible automation, from the design and architecture of the tool and basic automation with playbooks to writing and debugging your own Python-based extensions. You'll learn how to build automation workflows with Ansible's extensive built-in library of collections, modules, and plugins. You'll then look at extending the modules and plugins with Python-based code and even build your own collections — ultimately learning how to give back to the Ansible community. By the end of this Ansible book, you'll be confident in all aspects of Ansible automation, from the fundamentals of playbook design to getting under the hood and extending and adapting Ansible to solve new automation challenges. What you will learn Gain an in-depth understanding of how Ansible works under the hood Get to grips with Ansible collections and how they are changing and shaping the future of Ansible Fully automate the Ansible playbook executions with encrypted data Use blocks to construct failure recovery or cleanup Explore the playbook debugger and Ansible console Troubleshoot unexpected behavior effectively Work with cloud infrastructure providers and container systems Who this book is for If you are an Ansible developer or operator who has a detailed understanding of its core elements and applications but are now looking to enhance your skills in applying automation using Ansible, this book is for you. Prior experience working with core system administration tasks on Linux and basic familiarity with concepts such as cloud computing, containers, network devices, and fundamentals of a high-level programming language will help you make the most of this book.

Best Sellers - Books :

- [The Summer Of Broken Rules](#)
- [Twisted Games \(twisted, 2\)](#)
- [Girl In Pieces By Kathleen Glasgow](#)
- [We'll Always Have Summer \(the Summer I Turned Pretty\)](#)
- [You Will Own Nothing: Your War With A New Financial World Order And How To Fight Back By Carol Roth](#)
- [Are You There God? It's Me, Margaret.](#)
- [House Of Flame And Shadow \(crescent City, 3\)](#)
- [My Butt Is So Christmassy! By Dawn Mcmillan](#)
- [Taylor Swift: A Little Golden Book Biography](#)
- [Never Never: A Romantic Suspense Novel Of Love And Fate](#)