

Chef Infrastructure Automation Cookbook Second Edition

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Chef Infrastructure Automation Cookbook Second Edition

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VILLEGAS LOGAN

DevOps: Continuous Delivery, Integration, and Deployment with DevOps Packt Publishing

If you are a developer who wants to have your development environment accurately reflect your live servers to tackle the ever-increasing complexity of web and software projects, this book is most certainly intended for you! It's assumed that you know the basics of Linux systems in the context of web-based projects.

Hands-On Enterprise Automation with Python Packt Publishing Ltd

Since Test-Driven Infrastructure with Chef first appeared in mid-2011, infrastructure testing has begun to flourish in the web ops world. In this revised and expanded edition, author Stephen Nelson-Smith brings you up to date on this rapidly evolving discipline, including the philosophy driving it and a growing array of tools. You'll get a hands-on introduction to the Chef framework, and a recommended toolchain and workflow for developing your own test-driven production infrastructure. Several exercises and examples throughout the book help you gain experience with Chef and the entire infrastructure-testing ecosystem. Learn how this test-first approach provides increased security, code quality, and peace of mind. Explore the underpinning philosophy that infrastructure can and should be treated as code Become familiar with the MASCOT approach to test-driven infrastructure Understand the basics of test-driven and behavior-driven development for managing change Dive into Chef fundamentals by building an infrastructure with real examples Discover how Chef works with tools such as Virtualbox and Vagrant Get a deeper understanding of Chef by learning Ruby language basics Learn the tools and workflow necessary to conduct unit, integration, and acceptance tests

Infrastructure as Code VPT

Learn Chef Provisioning like a boss and finally own your infrastructure About This Book This is the first Chef book focused on provisioning infrastructure as its sole task. The book offers a clear solution to a specific pain point: learn to make your system work faster. Learning better approaches to load balancing and parallelization with this book will save you time By mastering the techniques in this book, you will know how to run an entire fleet of machines without breaking a sweat This book is more helpful than the documentation (<https://docs.chef.io/provisioning.html>), with a stronger guiding voice and clearer explanations and use cases Who This Book Is For This book is for Software Engineers, System Administrators, or DevOps Engineers who need to quickly deliver reliably consistent infrastructure at scale. You are expected to have intermediate experience with Chef and Ruby and will be reading this book to advance your knowledge and take your skillset to the next level. What You Will Learn Use best practices to describe your entire infrastructure as code Automate and document every aspect of your network, from the hardware of individual nodes to software, middleware, and all containers and clouds Create a perfect model system Make the best possible use of your resources and avoid redundancy Deliver on the promise of Infrastructure as Code Scale with ease by properly provisioning their infrastructure Use the best Test Driven Development methodologies In Detail This book will show you the best practices to describe your entire infrastructure as code. With the help of this book you can expand your knowledge of Chef because and implement robust and scalable automation solutions. You can automate and document every aspect of your network, from the hardware to software, middleware, and all your containers. You will become familiar with the Chef's Chef Provisioning tool. You will be able to make a perfect model system where everything is represented as code beneath your fingertips. Make the best possible use of your resources, and deliver infrastructure as code, making it as versionable, testable and repeatable as application software Style and approach By dedicating a whole book solely to the question of provisioning, this book will teach administrators to use Chef as a birds-eye lens for their entire system. It will moves you away from the specifics of each machine and its automations and instead will teach you them how to

approach the entire cluster as something different than the sum of its parts. By focusing on infrastructure as code as its own project, the book offers elegant, time-saving solutions for a perfectly described and automated network.

Practical Network Automation Packt Publishing Ltd

CLOUD TECHNOLOGIES Contains a variety of cloud computing technologies and explores how the cloud can enhance business operations Cloud Technologies offers an accessible guide to cloud-based systems and clearly explains how these technologies have changed the way organizations approach and implement their computing infrastructure. The author includes an overview of cloud computing and addresses business-related considerations such as service level agreements, elasticity, security, audits, and practical implementation issues. In addition, the book covers important topics such as automation, infrastructure as code, DevOps, orchestration, and edge computing. Cloud computing fundamentally changes the way organizations think about and implement IT infrastructure. Any manager without a firm grasp of basic cloud concepts is at a huge disadvantage in the modern world. Written for all levels of managers working in IT and other areas, the book explores cost savings and enhanced capabilities, as well as identifies different models for implementing cloud technologies and tackling cloud business concerns. This important book: Demonstrates a variety of cloud computing technologies and ways the cloud can enhance business operations Addresses data security concerns in cloud computing relevant to corporate data owners Shows ways the cloud can save money for a business Offers a companion website hosting PowerPoint slides Written for managers in the fields of business, IT and cloud computing, Cloud Technologies describes cloud computing concepts and related strategies and operations in accessible language.

Getting Started with Terraform Packt Publishing Ltd

Over 90 practical, actionable recipes to automate, test, and manage your infrastructure quickly and effectively About This Book Bring down your delivery timeline from days to hours by treating your server configurations and VMs as code, just like you would with software code. Take your existing knowledge and skill set with your existing tools (Puppet, Chef, or Docker) to the next level and solve IT infrastructure challenges. Use practical recipes to use code to provision and deploy servers and applications and have greater control of your infrastructure. Who This Book Is For This book is for DevOps engineers and developers working in cross-functional teams or operations and would now switch to IAC to manage complex infrastructures. What You Will Learn Provision local and remote development environments with Vagrant Automate production infrastructures with Terraform, Ansible and Cloud-init on AWS, OpenStack, Google Cloud, Digital Ocean, and more Manage and test automated systems using Chef and Puppet Build, ship, and debug optimized Docker containers Explore the best practices to automate and test everything from cloud infrastructures to operating system configuration In Detail Infrastructure as Code (IAC) is a key aspect of the DevOps movement, and this book will show you how to transform the way you work with your infrastructure—by treating it as software. This book is dedicated to helping you discover the essentials of infrastructure automation and its related practices; the over 90 organized practical solutions will demonstrate how to work with some of the very best tools and cloud solutions. You will learn how to deploy repeatable infrastructures and services on AWS, OpenStack, Google Cloud, and Digital Ocean. You will see both Ansible and Terraform in action, manipulate the best bits from cloud-init to easily bootstrap instances, and simulate consistent environments locally or remotely using Vagrant. You will discover how to automate and test a range of system tasks using Chef or Puppet. You will also build, test, and debug various Docker containers having developers' interests in mind. This book will help you to use the right tools, techniques, and approaches to deliver working solutions for today's modern infrastructure challenges. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques about IAC and solve immediate problems when trying to implement them.

Learning Chef Packt Publishing Ltd

Strengthen your security posture in all aspects of CSPM technology, from security infrastructure design to implementation strategies, automation, and remedial actions using operational best practices across your cloud environment Key Features Choose the right CSPM tool to rectify cloud security misconfigurations based on organizational requirements Optimize your security posture with expert techniques for in-depth cloud security insights Improve your security compliance score by adopting a secure-by-design approach and implementing security automation Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThis book will help you secure your cloud infrastructure confidently with cloud security posture management (CSPM) through expert guidance that'll enable you to implement CSPM effectively, ensuring an optimal security posture across multi-cloud infrastructures. The book begins by unraveling the fundamentals of cloud security, debunking myths about the shared responsibility model, and introducing key concepts such as defense-in-depth, the Zero Trust model, and compliance. Next, you'll explore CSPM's core components, tools, selection criteria, deployment strategies, and environment settings, which will be followed by chapters on onboarding cloud accounts, dashboard customization, cloud assets inventory, configuration risks, and cyber threat hunting. As you progress, you'll get to grips with operational practices, vulnerability and patch management, compliance benchmarks, and security alerts. You'll also gain insights into cloud workload protection platforms (CWPPs). The concluding chapters focus on Infrastructure as Code (IaC) scanning, DevSecOps, and workflow automation, providing a thorough understanding of securing multi-cloud environments. By the end of this book, you'll have honed the skills to make informed decisions and contribute effectively at every level, from strategic planning to day-to-day operations.What you will learn Find out how to deploy and onboard cloud accounts using CSPM tools Understand security posture aspects such as the dashboard, asset inventory, and risks Explore the Kusto Query Language (KQL) and write threat hunting queries Explore security recommendations and operational best practices Get to grips with vulnerability, patch, and compliance management, and governance Familiarize yourself with security alerts, monitoring, and workload protection best practices Manage IaC scan policies and learn how to handle exceptions Who this book is for If you're a cloud security administrator, security engineer, or DevSecOps engineer, you'll find this book useful every step of the way—from proof of concept to the secured, automated implementation of CSPM with proper auto-remediation configuration. This book will also help cybersecurity managers, security leads, and cloud security architects looking to explore the decision matrix and key requirements for choosing the right product. Cloud security enthusiasts who want to enhance their knowledge to bolster the security posture of multi-cloud infrastructure will also benefit from this book.

Chef Infrastructure Automation Cookbook - Second Edition Packt Publishing Ltd

Get a hands-on introduction to the Chef, the configuration management tool for solving operations issues in enterprises large and small. Ideal for developers and sysadmins new to configuration management, this guide shows you to automate the packaging and delivery of applications in your infrastructure. You'll be able to build (or rebuild) your infrastructure's application stack in minutes or hours, rather than days or weeks. After teaching you how to write Ruby-based Chef code, this book walks you through different Chef tools and configuration management concepts in each chapter, using detailed examples throughout. All you need to get started is command-line experience and familiarity with basic system administration. Configure your Chef development environment and start writing recipes Create Chef cookbooks with recipes for each part of your infrastructure Use Test Kitchen to manage sandbox testing environments Manage single nodes with Chef client, and multiple nodes with Chef Server Use data bags for storing shared global data between nodes Simulate production Chef Server environments with Chef Zero Classify different types of services in your infrastructure with roles Model life stages of your application, including development, testing, staging, and production [Chef Infrastructure Automation Cookbook](#) John Wiley & Sons

Master over 80 incredibly effective recipes to manage the day-to-day complications in your infrastructure About This Book Immediately apply Devops techniques and methods, then combine them with powerful Chef tools to manage and automate your infrastructure Address the growing challenges of code management, cloud, and virtualization with Chef quickly Explore and implement the important aspects of Chef Automate using this recipe-based guide Who This Book Is For This book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It is also for DevOps Engineers, IT professionals, and organizations who want to automate and gain greater control of their infrastructures with Chef. No experience with Chef is needed, but may help. What You Will Learn Test your cookbooks with Test Kitchen Manage cookbook dependencies with Berkshelf Use reporting to keep track of what happens during the execution of chef-client runs across all of the machines Create custom Ohai and Knife plugins Build a high-availability service using Heartbeat Use a HAProxy to load-balance multiple web servers In Detail Chef is a configuration management tool that lets you automate your more cumbersome IT infrastructure processes and control a large network of computers (and virtual machines) from one master server. This book will help you solve everyday problems with your IT infrastructure with Chef. It will start with recipes that show you how to effectively manage your infrastructure and solve problems with users, applications, and automation. You will then come across a new testing framework, InSpec, to test any node in your infrastructure. Further on, you will learn to customize plugins and write cross-platform cookbooks depending on the platform. You will also install packages from a third-party repository and learn how to manage users and applications. Toward the end, you will build high-availability services and explore what Habitat is and how you can implement it. Style and approach This book follows a recipe-based approach and covers all the important topics you need to know. If you don't want to dig through a whole book before you get started, this book is for you, as it features a set of independent recipes you can try out immediately.

[DevOps for VMware Administrators](#) Packt Publishing Ltd

Terraform has become a key player in the DevOps world for defining, launching, and managing infrastructure as code (IaC) across a 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 Terraform basics to 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 Automation Cookbook](#) Addison-Wesley Professional

Prepare for Microsoft Exam 70-535—and help demonstrate your real-world mastery of architecting complete cloud solutions on the Microsoft Azure platform. Designed for architects and other cloud professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Design compute infrastructure Design data implementation Design networking implementation Design security and identity solutions Design solutions by using platform services Design for operations This Microsoft Exam Ref: Organizes its coverage by exam skills Features strategic, what-if scenarios to challenge you Includes DevOps and hybrid technologies and scenarios Assumes you have experience building infrastructure and applications on the Microsoft Azure platform, and understand the services it offers

[Chef Cookbook - Third Edition](#) "O'Reilly Media, Inc."

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

[Test-Driven Infrastructure with Chef](#) Packt Publishing Ltd

Prepare for Microsoft Exam AZ-304—and help demonstrate your real-world mastery of designing and implementing solutions that run on Microsoft Azure, including key aspects such as compute, network, storage, and security. Designed for modern IT professionals, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the Microsoft Certified Expert level. Focus on the expertise measured by these objectives: • Design monitoring • Design identity and security • Design data storage • Design business continuity • Design infrastructure This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you are an IT professional with significant experience and knowledge of IT operations, and expert-level Azure administration skills, and experience with Azure development and DevOps processes About the Exam Exam AZ-304 focuses on knowledge needed to design for cost optimization; design logging and monitoring solutions; design authentication, authorization, governance, and application security; design database solutions and data integrations; select storage accounts; design for backup/recovery and high availability; design compute and network infrastructure; design application architectures, and design migrations. About Microsoft Certification Passing this exam and Exam AZ-303: Microsoft Azure Architect Technologies fulfills your requirements for the Microsoft Certified: Azure Solutions Architect Expert credential, demonstrating your expertise in compute, network, storage, and security for designing and implementing modern cloud-based solutions that run on Microsoft Azure. See full details at: microsoft.com/learn

[Mastering Chef Provisioning](#) Packt Publishing Ltd

Chef is a configuration management tool that turns IT infrastructure into code. Chef provides tools to manage systems at scale. This book will take you through the Chef code, tools, and components to manage your environments using the Chef server efficiently. The book starts with an introduction to the Chef ecosystem, taking you through the terminologies used in Chef, the anatomy of a chef-client run, and Chef solo. You will learn how to use Knife and its associated plugins to accomplish daily routine tasks in a more efficient way. You will also learn how to speed this up by using Ruby with Chef, which will allow you to write more efficient infrastructure code. This book then introduces you to cookbooks and how to extend chef-client through the use of Lightweight Resource/Provider. It tells you how to keep all kind of configurations in key-value pair efficiently, by introducing you to data bags and templates. Then you will get a walkthrough of Chef's wonderful APIs and the extended functionalities of Chef. By the end of the book you will be so well-versed with Chef that you'll be able to explore some fun uses of Chef, which will allow for better productivity.

[Mastering Chef](#) "O'Reilly Media, Inc."

This book is your hands-on guide to infrastructure provisioning and configuration management in the cloud using Chef's open source, cross-platform toolset. With over 10,000 customers joining the Microsoft Azure cloud platform each week and steadily increasing usage, the need for automation approaches has never been greater. This book provides both practical examples and a much needed strategic overview of how these two technologies can be combined. Using Chef with Microsoft Azure takes you through the process of writing 'recipes' in Chef to describe your infrastructure as code, and simplify your configuration management processes. You'll also meet the Chef tools that can be used to provision complete environments within Microsoft Azure. There are now a wide variety of tools and approaches that can be taken to provision resources such as virtual machines within Microsoft Azure. This book demonstrates them, discusses the benefits and weaknesses of each approach, and shows how a continuous provisioning pipeline can be established as part of a reliable, repeatable, and robust provisioning process. Each chapter has practical exercises that highlight the capabilities of both Chef and Microsoft Azure from an automation perspective and can be executed on Windows, Mac, or Linux platforms. In this book,

you'll learn: The purpose and principles behind automated provisioning Microsoft Azure concepts and management options How to deploy Chef Azure Virtual Machine Extensions using PowerShell, Azure command-line tools, and Chef Provisioning Chef Provisioning techniques, including provisioning PaaS resources such as KeyVault How to integrate quality tooling into the Chef development lifecycle, including Test Kitchen and InSpec with Azure compute resources How to set up a pipeline for continuous provisioning with Chef and Azure Who This Book Is For This book is for infrastructure platform and operations engineers and DevOps specialists/practitioners working with infrastructure and platform provisioning on Microsoft's public cloud, Azure. An understanding of programming in any language would be beneficial, but not necessary as the examples are designed to be easily readable by anyone with general IT experience. While it is expected most users picking up this book will be on the Windows platform, a good proportion of compute workload on the Azure platform is Linux based. As a result the book includes examples that are relevant to both Windows and Linux platforms.

[Chef Infrastructure Automation Cookbook - Second Edition](#) "O'Reilly Media, Inc."

Over 90 recipes to satisfy all your automation needs and leverage vRealize Orchestrator 7.1 for your projects About This Book- Unleash the power of VMware vRealize Orchestrator 7 and automate your VMware infrastructure- Customize and tune your orchestrator by programming and working with plugins- Work through enticing recipes that can be implemented in your organization- Explore the new and upcoming plugins of Puppet, Docker, Chef, and VMware Replication for VMware vRealize Orchestrator Who This Book Is For This book is for system administrators who are into VMware administration and are looking to automate their infrastructure. Basic knowledge about programming is needed. No previous knowledge of Orchestrator is required. This book will also be good for you if you have just a basic knowledge with vRealize Orchestrator, as you can pick up any recipe and implement it for your enterprise. What You Will Learn- Install, configure, and optimize Orchestrator installations (Windows, Appliance, and vRA integrated)- Explore all the visual programming elements without needing additional infrastructure- Work with plugins such as SSH, mail, SQL, PowerShell, AD, SOAP, SNMP, AMQP, and REST- Discover how to create VMware automation- Get to know about user management, import/export, and synchronization as well as the packaging application - Understand policies, resources, and web views- Troubleshoot vRO Appliance In Detail VMware vRealize Orchestrator is a powerful automation tool designed for system administrators and IT operations staff who are planning to streamline their tasks and are waiting to integrate the functions with third-party operations software. This book is an update to VMware vRealize Orchestrator Cookbook and is blend of numerous recipes on vRealize Orchestrator 7. This book starts with installing and configuring vRealize Orchestrator. We will demonstrate how to upgrade from previous versions to vRealize Orchestrator 7. You will be taught all about orchestrator plugins and how to use and develop various plugins that have been enhanced in Orchestrator 7. Throughout this book, you will explore the new features of Orchestrator 7, such as the introduction of the control center, along with its uses. You will also come to understand visual programming, how to integrate base plugins into workflows, and how to automate VMware. You will also get to know how to troubleshoot vRealize Orchestrator. By the end of this book, you will be able to get the most out of your Orchestrator installation, and will be able to develop complex workflows and create your own highly integrated automations of vRealize environments. Style and approach This practical guide provides exciting and practical recipes on VMware vRealize Orchestrator 7 for those who are waiting to automate their infrastructure.

[Exam Ref 70-535 Architecting Microsoft Azure Solutions](#) "O'Reilly Media, Inc."

DevOps represents a powerful new approach to delivering IT services, where software developers and IT operations teams work closely together to deploy projects far more often and more reliably. As pioneers like Google, Amazon, and Netflix have discovered, DevOps can improve efficiency, accelerate delivery, and reduce costs. However, most discussions of DevOps focus on theory rather than implementation, and DevOps raises unique issues in virtualized environments. DevOps for VMware Administrators addresses these issues, offering realistic insights both for implementing DevOps and for applying new tools to maximize its value. The authors also offer extensive hands-on practice with solving realistic problems and improving IT efficiency by utilizing these four tools: Puppet IT automation software for managing infrastructure across its lifecycle, including provisioning, configuration, orchestration, and reporting Chef configuration management tool for writing system configuration "recipes" that streamline server configuration and maintenance and can integrate with cloud-based platforms such as Rackspace and Amazon EC2 to automate provisioning Ansible, the flexible open source toolkit for automating configuration management

and orchestration in Unix and Unix-style environments Windows PowerShell for automating tasks and configuration management in Windows environments

[Mastering Cloud Security Posture Management \(CSPM\)](#) Microsoft Press

This book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It helps if you've already played around with Chef; however, this book covers all the important topics you will need to know. If you don't want to dig through a whole book before you can get started, this book is for you, as it features a set of independent recipes you can try out immediately.

Chef: Powerful Infrastructure Automation Packt Publishing Ltd

Get More from your Network with Automation tools to increase its effectiveness. About This Book Get started with network automation (and different automation tasks) with relevant use cases

Apply software design principles such as Continuous Integration and DevOps to your network toolkit Guides you through some best practices in automation Who This Book Is For If you are a network engineer looking for an extensive guide to help you automate and manage your network efficiently, then this book is for you. What You Will Learn Get the detailed analysis of Network automation Trigger automations through available data factors Improve data center robustness and security through specific access and data digging Get an Access to APIs from Excel for dynamic reporting Set up a communication with SSH-based devices using netmiko Make full use of practical use cases and best practices to get accustomed with the various aspects of network automation In Detail Network automation is the use of IT controls to supervise and carry out every-day network management functions. It plays a key role in network virtualization technologies and network functions. The book starts by providing an introduction to network automation, SDN, and its applications, which include integrating DevOps tools to automate the network efficiently. It then guides you through different network automation tasks and covers various data digging and reporting methodologies such as IPv6 migration, DC relocations, and interface parsing, all the while retaining security and improving data center robustness. The book then moves on to the use of Python and the management of SSH keys for machine-to-machine (M2M) communication, all followed by practical use cases. The book also covers the importance of Ansible for network automation including best practices in automation, ways to test automated networks using different tools, and other important techniques. By the end of the book, you will be well acquainted with the various aspects of network automation. Style and approach A clear, concise, and straightforward book that will enable you to automate networks and improve performance.

[VMware VRealize Orchestrator Cookbook - Second Edition](#) Packt Publishing Ltd

Learn Chef Provisioning like a boss and discover how to deploy software and manage hosts, along with engaging recipes to automate your cloud and server infrastructure with Chef. About This Book

Leverage the power of Chef to transform your infrastructure into code to deploy new features in minutes Get step-by-step instructions to configure, deploy, and scale your applications Master specific Chef techniques to run an entire fleet of machines without breaking a sweat. Who This Book Is For If you are a system administrator, Linux administrator, a cloud developer, or someone who just wants to learn and apply Chef automation to your existing or new infrastructure, then this learning path will show you all you need to know. In order to get the most out of this learning path, some experience of programming or scripting languages would be useful. What You Will Learn Install Chef server on your own hosts Integrate Chef with cloud services Debug your cookbooks and Chef runs using the numerous inspection and logging facilities of Chef Extend Chef to meet your advanced needs by creating custom plugins for Knife and Ohai Create a perfect model system Use the best test-driven development methodologies In Detail Chef is a configuration management tool that turns IT infrastructure into code. Chef provides tools to manage systems at scale. This learning path takes you on a comprehensive tour of Chef's functionality, ranging from its core features to advanced development. You will be brought up to speed with what's new in Chef and how to set up your own Chef infrastructure for individuals, or small or large teams. You will learn to use the basic Chef command-line tools. We will also take you through the core concepts of managing users, applications, and your entire cloud infrastructure. You will learn the techniques of the pros by walking you through a host of step-by-step guides to solve real-world infrastructure automation challenges. You will learn to automate and document every aspect of your network, from the hardware to software, middleware, and all your containers. You will become familiar with the Chef's Provisioning tool. By the end of this course, you will be confident in how to manage your infrastructure, scale using the cloud, and extend the built-in functionality of Chef itself. The books used in this Learning Path are: 1) Chef Essentials 2) Chef Infrastructure Automation Cookbook – Second Edition 3) Mastering Chef Provisioning Style and approach This fast-paced guide covers the many facets of Chef and will teach administrators to use Chef as a birds-eye lens for their entire system. This book takes you through a host of step-by-step guides to solve real-world infrastructure automation challenges and offers elegant, time-saving solutions for a perfectly described and automated network.

Customizing Chef Packt Publishing Ltd

Over 120 recipes covering key automation techniques through code management and virtualization offered by modern Infrastructure as a Service About This Book- Use some of the powerful tools that have emerged to enable systems administrators and developers to take control and automate the management, monitoring, and creation of complex infrastructures- Covers some of the most exciting technologies available to DevOps engineers, and demonstrates multiple techniques for using them- A hands-on guide filled with clear examples and multiple methodologies to demonstrate the various DevOps tools available Who This Book Is For If you are a

systems administrator or developer who is keen to employ DevOps techniques to help with the day-to-day complications of managing complex infrastructures, then this book is for you. No prior knowledge of DevOps tools is required. What You Will Learn- Manage, use, and work with code in the Git version management system- Manage the life cycle of hosts, from creation to on-going management, using Puppet Razor- Create hosts automatically using a simple combination of TFTP, DHCP, and pre-seeds- Implement virtual hosts using the ubiquitous VMware ESXi hypervisor- Control configuration using the powerful and popular Ansible configuration management system- Develop powerful, consistent, and portable containers using Docker- Track trends, discover data, and monitor key systems using InfluxDB, syslog, and Sensu- Deal efficiently with powerful cloud infrastructures using the Amazon AWS Infrastructure as a Service and the Heroku Platform as a Service In Detail There has been a recent explosion in tools that allow you to redefine the delivery of infrastructure and applications, using a combination of automation and testing to deliver continuous deployment. DevOps has garnered interest from every quarter, and is rapidly being recognized as a radical shift, as large as the Agile movement for the delivery of software. This book takes a collection of some of the coolest software available today and shows you how to use it to create impressive changes to the way you deliver applications and software. It tackles the plethora of tools that are now available to enable organizations to take advantage of the automation, monitoring, and configuration management techniques that define a DevOps-driven infrastructure. Starting off with the fundamental command-line tools that every DevOps enthusiast must know, this book will guide you through the implementation of the Ansible tool to help you facilitate automation and perform diverse tasks. You will explore how to build hosts automatically with the creation of Apt mirrors and interactive pre-seeds, which are of the utmost importance for Ubuntu automation. You will also delve into the concept of virtualization and creating and manipulating guests with ESXi. Following this, you will venture into the application of Docker; learn how to install, run, network, and restore Docker containers; and also learn how to build containers in Jenkins and deploy apps using a combination of Ansible, Docker, and Jenkins. You will also discover how to filter data with Grafana and the usage of InfluxDB along with unconventional log management. Finally, you will get acquainted with cloud infrastructure, employing the Heroku and Amazon AWS platforms. By tackling real-world issues, this book will guide you through a huge variety of tools, giving new users the ability to get up and running and offering advanced users some interesting recipes that may help with existing issues. Style and approach This book has an easy-to-follow approach to both introducing the wide range of available DevOps tools and working with them. Each recipe is lavishly sprinkled with example code and uses clear instructions to easily allow you to see how you can both implement the solutions, and more importantly, tailor them to your unique needs.