

Create and Manage Virtualized Development Environments



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Hochstein, 2014-12-08 Among the many configuration management tools available Ansible has some distinct advantages it s minimal in nature you don t need to 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 desire Understand 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 *Docker: Up & Running* Sean P. Kane, Karl Matthias, 2018-09-07 Docker is rapidly changing the way organizations deploy software at scale However understanding how Linux containers fit into your workflow and getting the integration details right is not a trivial task With the updated edition of this practical guide you ll learn how to use Docker to package your applications with all of their dependencies and then test ship scale and support your containers in production This edition includes significant updates to the examples and explanations that reflect the substantial changes that have occurred over the past couple of years Sean Kane and Karl Matthias have added a complete chapter on Docker Compose deeper coverage of Docker Swarm mode

introductions to both Kubernetes and AWS Fargate examples on how to optimize your Docker images and much more Learn how Docker simplifies dependency management and deployment workflow for your applications Start working with Docker images containers and command line tools Use practical techniques to deploy and test Docker containers in production Debug containers by understanding their composition and internal processes Deploy production containers at scale inside your data center or cloud environment Explore advanced Docker topics including deployment tools networking orchestration security and configuration

Pro Vagrant Wlodzimierz Gajda,2015-06-04 Pro Vagrant teaches you how to effectively implement and optimize Vagrant in your everyday work environment Master the creation and configuration of virtual development environments with an easy to use workflow and focus on automation Vagrant lowers development environment setup time increases development production parity and makes the works on my machine excuse a relic of the past DevOps is mainstream best practice nowadays and Vagrant sits firmly in the DevOps toolkit This book will take you from basic usage and getting started to provisioning with Shell Puppet and Chef You will see how to use Vagrant in real life scenarios so that you can start to use Vagrant day to day in your work Author Wlodimierz Gajda is a Vagrant expert and now brings his experience to you in Pro Vagrant This is an indispensable book for anyone using Vagrant add it to your library today

Vagrant Cookbook Erika Heidi,2014-09-16 How many times did you hear the excuse works on my machine With Vagrant this stays in the past Your environments will be exactly the way you want them to be targeting specific projects for different needs As easy as cloning a repository and running vagrant up This book covers from basic to advanced concepts on Vagrant including important ProTips to improve your Vagrant projects and avoid common mistakes Vagrant Cookbook comes with quick guides to the 3 most used Vagrant provisioners Puppet Ansible and Chef Following the guide a practical example will show you how to provision a basic web server with Nginx PHP5 FPM PHP 5 5

Hands-On DevOps with Vagrant Alex Braunton,2018-10-17 Vagrant is a tool used to build and manage virtualized environments with ease Vagrant as a tool has evolved over time from support to virtualization to managing end to end DevOps and infrastructure management Through this book you ll be able to quickly install and configure Vagrant to perfectly suit your DevOps and infrastructure needs

Vagrant in Practice Richard Johnson,2025-06-11 Vagrant in Practice Vagrant in Practice is a definitive guide for professionals and teams seeking to master reproducible infrastructure and modern development environments with Vagrant Structured for both foundational understanding and advanced expertise this book methodically unpacks Vagrant s design philosophy architecture and integration within contemporary DevOps toolchains Readers learn to harness Vagrant across virtualization and cloud platforms explore the Vagrant ecosystem and community and cultivate seamless workflows for local and distributed environments The book delves into the intricacies of creating versioning and distributing base boxes including advanced topics like custom box building with Packer security optimization and compliance automation With comprehensive chapters dedicated to the anatomy and best practices of Vagrantfiles secrets management collaborative

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Monitoring with Graphite Jason Dixon, 2017-03-13 Graphite has become one of the most powerful monitoring tools available today due to its ease of use rapid graph prototyping abilities and a friendly rendering API With this practical guide system administrators and engineers will learn how to use this open source tool to track operational data you need to monitor your systems as well as application level metrics for profiling your services Author Jason Dixon member of the Graphite project provides a thorough introduction of Graphite from the basics to the skills and tools you need for troubleshooting and scaling out its software components If you want to learn more about monitoring systems services or applications this is the book you need Get an introduction to monitoring including important concepts and terminology Examine the features and functionality of key Graphite components including Carbon and Whisper Learn the typical user workflow necessary to create a basic line chart Build complex charts with chained functions and multiple axes that interact directly with the rendering API Understand how to use the native Graphite dashboard as well as the more popular third party dashboards Master the art of scaling and troubleshooting high performance or highly available Graphite clusters

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Learning Chef Mischa Taylor,Seth Vargo,2014-11-06 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

Mastering OpenStack Omar Khedher,2015-07-30 This comprehensive guide will help you to choose the right practical option and make strategic decisions about the OpenStack cloud environment to fit your infrastructure in production At the start this book will explain the OpenStack core architecture You will soon be shown how to create your own OpenStack private cloud Next you will move on to cover the key security layer and network troubleshooting skills along with some advanced networking features Finally you will gain experience of centralizing and logging OpenStack The book will show you how to carry out performance tuning based on OpenStack service logs By the end

of this book you will be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies

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DevOps for the Desperate
Bradley Smith,2022-07-12 DevOps for the Desperate is a hands on no nonsense guide for those who land in a DevOps environment and need to get up and running quickly This book introduces fundamental concepts software developers need to know to flourish in a modern DevOps environment including infrastructure as code configuration management security containerization and orchestration monitoring and alerting and troubleshooting Readers will follow along with hands on examples to learn how to tackle common DevOps tasks The book begins with an exploration of DevOps concepts using Vagrant and Ansible to build systems with repeatable and predictable states including configuring a host with user based security Next up is a crash course on containerization orchestration and delivery using Docker Kubernetes and a CI CD pipeline The book concludes with a primer in monitoring and alerting with tips for troubleshooting common host and application issues You ll learn how to Use Ansible to manage users and groups and enforce complex passwords Create a security policy for administrative permissions and automate a host based firewall Get started with Docker to containerize applications use Kubernetes for orchestration and deploy code using a CI CD pipeline Build a monitoring stack investigate common metric patterns and trigger alerts Troubleshoot and analyze common issues and errors found on hosts

Performance Testing with JMeter 3 Bayo Erinle,2017-07-21 A practical guide to help you understand the ability of Apache jMeter to load and performance test various server types in a more efficient way About This Book Use jMeter to create and run tests to improve the performance of your webpages and applications Learn to build a test plan for your websites and analyze the results Unleash the power of various features and changes introduced in Apache jMeter 3.0 Who This Book Is For This book is for software professionals who want to understand and improve the performance of their applications with Apache jMeter What You Will Learn See why performance testing is necessary and learn how to set up JMeter Record and test with JMeter Handle various form inputs in JMeter and parse results during testing Manage user sessions in web applications in the context of a JMeter test Monitor JMeter results in real time Perform distributed testing with JMeter Get acquainted with helpful tips and best practices for working with JMeter In Detail JMeter is a Java application designed to load and test performance for web application JMeter extends to improve the functioning of various other static and dynamic resources This book is a great starting point to learn about JMeter It covers the new features introduced with JMeter 3 and enables you to dive deep into the new techniques needed for measuring your website performance The book starts with the

basics of performance testing and guides you through recording your first test scenario before diving deeper into JMeter You will also learn how to configure JMeter and browsers to help record test plans Moving on you will learn how to capture form submission in JMeter dive into managing sessions with JMeter and see how to leverage some of the components provided by JMeter to handle web application HTTP sessions You will also learn how JMeter can help monitor tests in real time Further you will go in depth into distributed testing and see how to leverage the capabilities of JMeter to accomplish this You will get acquainted with some tips and best practices with regard to performance testing By the end of the book you will have learned how to take full advantage of the real power behind Apache JMeter Style and approach The book is a practical guide starting with introducing the readers to the importance of automated testing It will then be a beginner s journey from getting introduced to Apache jMeter to an in detail discussion of more advanced features and possibilities with it

Certified Kubernetes Security Specialist (CKS) Study Guide Benjamin Muschko,2023-06-08 Vulnerabilities in software and IT infrastructure pose a major threat to organizations In response the Cloud Native Computing Foundation CNCF developed the Certified Kubernetes Security Specialist CKS certification to verify an administrator s proficiency to protect Kubernetes clusters and the cloud native software they contain This practical book helps you fully prepare for the certification exam by walking you through all of the topics covered Different from typical multiple choice formats used by other certifications this performance based exam requires deep knowledge of the tasks it covers under intense time pressure If you want to pass the CKS exam on the first go author Benjamin Muschko shares his personal experience to help you learn the objectives abilities and tips and tricks you need to pass on the first attempt Identify mitigate and or minimize threats to cloud native applications and Kubernetes clusters Learn the ins and outs of Kubernetes s security features and external tools for security detection and mitigation purposes Demonstrate competency to perform the responsibilities of a Kubernetes administrator or application developer with a security viewpoint Solve real world Kubernetes problems in a hands on command line environment Effectively navigate and solve questions during the CKS exam

Docker Cookbook Sébastien Goasguen,2015-11-04 Whether you re deploying applications on premise or in the cloud this cookbook is for developers operators and IT professionals who need practical solutions for using Docker The recipes in this book will help developers go from zero knowledge to distributed applications packaged and deployed within a couple of chapters IT professionals will be able to use this cookbook to solve everyday problems as well as create run share and deploy Docker images quickly Operators will learn and understand what developers are excited about and start to adopt the tools that will change the way they work

Magento 2 Developer's Guide Branko Ajzele,Bartosz Gorski,2015-12-24 Harness the power of Magento 2 The most recent version of the world s favourite e Commerce platform for your online store About This Book Set up configure and power up your Magento environment from development to production Master the use of Web API to communicate with the Magento system and create custom services Create custom modules from scratch to extend the core functionality of the

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The Enigmatic Realm of **Vagrant Up And Running**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Vagrant Up And Running** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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