Create and Manage Virtualized Development Environments



Up and Running

# **Vagrant Up And Running**

**Bayo Erinle** 

#### **Vagrant Up And Running:**

Vagrant: Up and Running Mitchell Hashimoto, 2013-05-30 This book covers the V1 1 0x configuration syntax running on top of a V2 1 1 core the most stable configuration format running on the latest core Page 4 of cover Running Mitchell Hashimoto, 2013-05-30 Discover why Vagrant is a must have tool for thousands of developers and ops engineers This hands on guide shows you how to use this open source software to build a virtual machine for any purpose including a completely sandboxed fully provisioned development environment right on your desktop Vagrant creator Mitchell Hashimoto shows you how to share a virtual machine image with members of your team set up a separate virtualization for each project and package virtual machines for use by others This book covers the V1 1 0 x configuration syntax running on top of a V2 1 1 core the most stable configuration format running on the latest core Build a simple virtual machine with just two commands and no configuration Create a development environment that closely resembles production Automate software installation and management with shell scripts Chef or Puppet Set up a network interface to access your virtual machine from any computer Use your own editor and browser to develop and test your applications Test complicated multi machine clusters with a single Vagrantfile Change Vagrant s default operating system to match your production OS Extend Vagrant features with plugins including components you build yourself Ansible: Up and Running Lorin 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 guickly 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

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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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Ansible Michael Heap, 2016-09-27 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 **Pro Vim** Mark McDonnell.2014-12-02 Pro Vim teaches you the real world workflows tips and tricks of this powerful terminal based text editor This book covers all the essentials as well as lesser known but equally powerful features that will ensure you become a top level performant and professional user able to jump between multiple sessions while manipulating and controlling with ease many different documents and programming files With easy to digest chapters on all the areas you need to learn this book is a key addition to your library that will enable you to become a fast efficient user of Vim Using this book you will learn how to properly configure your terminal environment and work without even touching the mouse You will become an expert in how Vim actually works how buffers and sessions work automation through Macros and shell scripting real world workflows and how to work efficiently and fast with plugins and different themes You will also learn practical real world tips on how to best

utilize Vim alongside the terminal multiplexer tmux helping you to manage files across multiple servers and terminal sessions Avoid common pitfalls and work with best practice ways to efficiently edit and control your files and sessions from the terminal interface Vim is an advanced power tool that is commonly recognized as being difficult to learn even for experienced developers This book shows you how to become an expert by focusing on not only the fundamentals of how Vim works but also by distilling the author's own experiences learning Vim into an easy to understand and follow guide It's time to bring your programming editing and workflow skills up to the professional level use Pro Vim today **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 CDpipeline The book concludes with a primer in monitoring and alerting with tips for troubleshootingcommon 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 deploycode 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 undertand 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

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