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KEY=DEVELOPMENT - HALEY CARINA

CREATING DEVELOPMENT ENVIRONMENTS WITH VAGRANT - SECOND EDITION

[Packt Publishing Ltd](#) **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.**

VAGRANT VIRTUAL DEVELOPMENT ENVIRONMENT COOKBOOK

[Packt Publishing Ltd](#) **If you are a software developer or administrator who wishes to create simple, reusable environments using Vagrant, this book is the perfect choice for you. Whether you are a system administrator with extensive experience in virtualization or a developer wishing to create development scripts for cloud deployment, you will find easy-to-follow recipes and techniques in this book that will allow you to create robust and reproducible virtual environments.**

CREATING DEVELOPMENT ENVIRONMENTS WITH VAGRANT

[Packt Publishing](#) **This is a practical, hands-on guide that will help you set up and implement virtual development environments with Vagrant easily and effortlessly."Creating Development Environments with Vagrant" is for Vagrant developers, programmers, and coders who want to maintain multiple projects within their own environment. It is also aimed at companies who are looking to deploy ready-to-go development solutions for new staff or even existing staff moving to new projects, and to enforce a consistent and portable virtual development environment that is easy to create and quick to set up.**

VAGRANT: UP AND RUNNING

CREATE AND MANAGE VIRTUALIZED DEVELOPMENT ENVIRONMENTS

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

VAGRANT: UP AND RUNNING

CREATE AND MANAGE VIRTUALIZED DEVELOPMENT ENVIRONMENTS

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

COMPUTER AND NETWORK SECURITY ESSENTIALS

[Springer](#) **This book introduces readers to the tools needed to protect IT resources and communicate with security specialists when there is a security problem. The book covers a wide range of security topics including Cryptographic Technologies, Network Security, Security Management, Information Assurance, Security Applications, Computer Security, Hardware Security, and Biometrics and Forensics. It introduces the concepts, techniques, methods, approaches, and trends needed by security specialists to improve their security skills and capabilities. Further, it provides a glimpse into future directions where security techniques, policies, applications, and theories are headed. The book represents a collection of carefully selected and reviewed chapters written by diverse security experts in the listed fields and edited by prominent security researchers. Complementary slides are available for download on the book's website at Springer.com.**

COMPLETE GUIDE TO OPEN SOURCE BIG DATA STACK

[Apress](#) **See a Mesos-based big data stack created and the components used. You will use currently available Apache full and incubating systems. The components are introduced by example and you learn how they work together. In the Complete Guide to Open Source Big Data Stack, the author begins by creating a private cloud and then installs and examines Apache Brooklyn. After that, he uses each chapter to introduce one piece of the big data stack—sharing how to source the software and how to install it. You learn by simple example, step by step and chapter by chapter, as a real big data stack is created. The book concentrates on Apache-based systems and shares detailed examples of cloud storage, release management, resource management, processing, queuing, frameworks, data visualization, and more. What You'll Learn Install a private cloud onto the local cluster using Apache cloud stack Source, install, and configure Apache: Brooklyn, Mesos, Kafka, and Zeppelin See how Brooklyn can be used to install Mule ESB on a cluster and Cassandra in the cloud Install and use DCOS for big data processing Use Apache Spark for big data stack data processing Who This Book Is For Developers, architects, IT project managers, database administrators, and others charged with developing or supporting a big data system. It is also for anyone interested in Hadoop or big data, and those experiencing problems with data size.**

ENTERPRISE APPLICATION ARCHITECTURE WITH .NET CORE

[Packt Publishing Ltd](#) **Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends**

and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

EXPERT PYTHON PROGRAMMING

Packt Publishing Ltd Become an ace Python programmer by learning best coding practices and advance-level concepts with Python 3.5 About This Book Based on the latest stable version of Python (version 3.5) Creating well manageable code that will run in various environments with different sets of dependencies Packed with advanced concepts and best practices to write efficient Python code Who This Book Is For The book would appeal to web developers and Python programmers who want to start using version 3.5 and write code efficiently. Basic knowledge of Python programming is expected. What You Will Learn Conventions and best practices that are widely adopted in the python community Package python code effectively for community and production use Easy and lightweight ways to automate code deployment on remote systems Improve your code's quality, reliability, and performance Write concurrent code in python Extend python with code written in different languages In Detail Python is a dynamic programming language, used in a wide range of domains by programmers who find it simple, yet powerful. Even if you find writing Python code easy, writing code that is efficient and easy to maintain and reuse is a challenge. The focus of the book is to familiarize you with common conventions, best practices, useful tools and standards used by python professionals on a daily basis when working with code. You will begin with knowing new features in Python 3.5 and quick tricks for improving productivity. Next, you will learn advanced and useful python syntax elements brought to this new version. Using advanced object-oriented concepts and mechanisms available in python, you will learn different approaches to implement metaprogramming. You will learn to choose good names, write packages, and create standalone executables easily. You will also be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use. Moving on, you will learn to effectively create Python extensions with C, C++, cython, and pyrex. The important factors while writing code such as code management tools, writing clear documentation, and test-driven development are also covered. You will now dive deeper to make your code efficient with general rules of optimization, strategies for finding bottlenecks, and selected tools for application optimization. By the end of the book, you will be an expert in writing efficient and maintainable code. Style and approach An easy-to-follow guide that covers industry followed best practices in Python programming

EXPERT PYTHON PROGRAMMING

MASTER PYTHON BY LEARNING THE BEST CODING PRACTICES AND ADVANCED PROGRAMMING CONCEPTS, 4TH EDITION

Packt Publishing Ltd Gain a deep understanding of building, maintaining, packaging, and shipping robust Python applications Key FeaturesDiscover the new features of Python, such as dictionary merge, the zoneinfo module, and structural pattern matchingCreate manageable code to run in various environments with different sets of dependenciesImplement effective Python data structures and algorithms to write, test, and optimize codeBook Description This new edition of Expert Python Programming provides you with a thorough understanding of the process of building and maintaining Python apps. Complete with best practices, useful tools, and standards implemented by professional Python developers, this fourth edition has been extensively updated. Throughout this book, you'll get acquainted with the latest Python improvements, syntax elements, and interesting tools to boost your development efficiency. The initial few chapters will allow experienced programmers coming from different languages to transition to the Python ecosystem. You will explore common software design patterns and various programming methodologies, such as event-driven programming, concurrency, and metaprogramming. You will also go through complex code examples and try to solve meaningful problems by bridging Python with C and C++, writing extensions that benefit from the strengths of multiple languages. Finally, you will understand the complete lifetime of any application after it goes live, including packaging and testing automation. By the end of this book, you will have gained actionable Python programming insights that will help you effectively solve challenging problems. What you will learnExplore modern ways of setting up repeatable and consistent Python development environmentsEffectively package Python code for community and production useLearn modern syntax elements of Python programming, such as f-strings, enums, and lambda functionsDemystify metaprogramming in Python with metaclassesWrite concurrent code in PythonExtend and integrate Python with code written in C and C++Who this book is for The Python programming book is intended for expert programmers who want to learn Python's advanced-level concepts and latest features. Anyone who has basic Python skills should be able to follow the content of the book, although it might require some additional effort from less experienced programmers. It should also be a good introduction to Python 3.9 for those who are still a bit behind and continue to use other older versions.

HIGH PERFORMANCE DRUPAL

FAST AND SCALABLE DESIGNS

"O'Reilly Media, Inc." How can you help your Drupal website continue to perform at the highest level as it grows to meet demand? This comprehensive guide provides best practices, examples, and in-depth explanations for solving several performance and scalability issues. You'll learn how to apply coding and infrastructure techniques to Drupal internals, application performance, databases, web servers, and performance analysis. Covering Drupal versions 7 and 8, this book is the ideal reference for everything from site deployment to implementing specific technologies such as Varnish, memcache, or Solr. If you have a basic understanding of Drupal and the Linux-Apache-MySQL-PHP (LAMP) stack, you're ready to get started. Establish a performance baseline and define goals for improvement Optimize your website's code and front-end performance Get best and worst practices for customizing Drupal core functionality Apply infrastructure design techniques to launch or expand a site Use tools to configure, monitor, and optimize MySQL performance Employ alternative storage and backend search options as your site grows Tune your web servers through httpd and PHP configuration Monitor services and perform load tests to catch problems before they become critical

SECURITY FOR WEB DEVELOPERS

USING JAVASCRIPT, HTML, AND CSS

"O'Reilly Media, Inc." As a web developer, you may not want to spend time making your web app secure, but it definitely comes with the territory. This practical guide provides you with the latest information on how to thwart security threats at several levels, including new areas such as microservices. You'll learn how to help protect your app no matter where it runs, from the latest smartphone to an older desktop, and everything in between. Author John Paul Mueller delivers specific advice as well as several security programming examples for developers with a good knowledge of CSS3, HTML5, and JavaScript. In five separate sections, this book shows you how to protect against viruses, DDoS attacks, security breaches, and other nasty intrusions. Create a security plan for your organization that takes the latest devices and user needs into account Develop secure interfaces, and safely incorporate third-party code from libraries, APIs, and microservices Use sandboxing techniques, in-house and third-party testing techniques, and learn to think like a hacker Implement a maintenance cycle by determining when and how to update your application software Learn techniques for efficiently tracking security threats as well as training requirements that your organization can use

PRO VAGRANT

Apress 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 Wodimierz 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.

ADVANCED BLOCKCHAIN TECHNOLOGY

FRAMEWORKS AND ENTERPRISE-LEVEL PRACTICES

[Springer Nature](#) This book is a must-have for blockchain developers who want to learn from scratch how to leverage blockchain technology in a real-world setting. The first section provides a brief overview of blockchain technology, including its concepts, history, technology genre, major related companies and typical application scenarios, and presents an ecological map for the blockchain industry by comparing and analyzing some mainstream platforms. The second section systematically introduces Ethereum and HyperLedger, exemplars of well-known open-source blockchain platforms, and demonstrates how to conduct blockchain applications development based on the two platforms. The third section illustrates core technology of enterprise blockchain platforms (to take Hyperchain, an independent, controllable blockchain alliance as an example), and covers Hyperchain based enterprise blockchain applications development technology. The fourth section presents 6 actual blockchain-based applications examples, and analyzes applications development procedure and related key codes. Examples in this book are of great practicability and operability, allowing practitioners to get started easily, and eventually utilize these skills to develop real-life, usable blockchain applications.

MASTERING OPENSTACK

[Packt Publishing Ltd](#) Discover your complete guide to designing, deploying, and managing OpenStack-based clouds in mid-to-large IT infrastructures with best practices, expert understanding, and more About This Book Design and deploy an OpenStack-based cloud in your mid-to-large IT infrastructure using automation tools and best practices Keep yourself up-to-date with valuable insights into OpenStack components and new services in the latest OpenStack release Discover how the new features in the latest OpenStack release can help your enterprise and infrastructure Who This Book Is For This book is for system administrators, cloud engineers, and system architects who would like to deploy an OpenStack-based cloud in a mid-to-large IT infrastructure. This book requires a moderate level of system administration and familiarity with cloud concepts. What You Will Learn Explore the main architecture design of OpenStack components and core-by-core services, and how they work together Design different high availability scenarios and plan for a no-single-point-of-failure environment Set up a multinode environment in production using orchestration tools Boost OpenStack's performance with advanced configuration Delve into various hypervisors and container technology supported by OpenStack Get familiar with deployment methods and discover use cases in a real production environment Adopt the DevOps style of automation while deploying and operating in an OpenStack environment Monitor the cloud infrastructure and make decisions on maintenance and performance improvement In Detail In this second edition, you will get to grips with the latest features of OpenStack. Starting with an overview of the OpenStack architecture, you'll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment. We'll show you how to create your own OpenStack private cloud. Then you'll learn about various hypervisors and container technology supported by OpenStack. You'll get an understanding about the segregation of compute nodes based on reliability and availability needs. We'll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV. Next, you'll understand the OpenStack infrastructure from a cloud user point of view. Moving on, you'll develop troubleshooting skills, and get a comprehensive understanding of services such as high availability and failover in OpenStack. Finally, you will gain experience of running a centralized logging server and monitoring OpenStack services. The book will show you how to carry out performance tuning based on OpenStack service logs. You will be able to master OpenStack benchmarking and performance tuning. By the end of the book, you'll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies. Style and approach This book will help you understand the flexibility of OpenStack by showcasing integration of several out-of-the-box solutions in order to build a large-scale cloud environment.. It will also cover detailed discussions on the various design and deployment strategies for implementing a fault-tolerant and highly available cloud infrastructure.

INFRASTRUCTURE AS CODE (IAC) COOKBOOK

[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.

PHP DEVELOPMENT TOOL ESSENTIALS

[Apress](#) Learn PHP development best practices, such as version control, development environment virtualization, and coding standards. You'll also discover the most useful PHP web frameworks, including the new Laravel, symfony2, and micro-frameworks. As you do so, you'll learn how to use them to write the most productive PHP code possible. PHP Development Tool Essentials complements Jason Gilmore's best-selling Beginning PHP and MySQL. This book will further expose you to the many different methodologies, tools, and concepts that professional web developers are using more and more each day. What You'll Learn Use version control with PHP Set up virtualized development environments Maintain PHP coding standards Manage dependencies Leverage the best PHP frameworks Who This Book Is For Intermediate to advanced PHP developers looking to advance their skills with new tools, concepts, and approaches.

SOFTWARE TECHNOLOGIES

13TH INTERNATIONAL CONFERENCE, ICISOFT 2018, PORTO, PORTUGAL, JULY 26-28, 2018, REVISED SELECTED PAPERS

[Springer](#) This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Joint Conference on Software Technologies, ICISOFT 2018, held in Porto, Portugal, in July 2018. The 18 revised full papers were carefully reviewed and selected from 117 submissions. The topics covered in the papers include: business process modelling, IT service management, interoperability and service-oriented architecture, project management software, scheduling and estimating, software metrics, requirements elicitation and specification, software and systems integration, etc.

LARAVEL 5 ESSENTIALS

[Packt Publishing Ltd](#) This book is intended for PHP web developers who have an interest in Laravel and who know the basics of the framework in theory, but don't really know how to use it in practice. No experience of using frameworks is required, but it is assumed you are at least familiar with building dynamic websites in PHP already.

DEPLOYING NODE.JS

[Packt Publishing Ltd](#) Node.js is a popular choice for teams that need to design, build, test, deploy, maintain, and monitor large-scale distributed systems. Starting with a detailed overview of the Node.js architecture, this book covers topics that will help in application development, testing, deployment, and maintenance. You will learn about concurrency, event loops, callbacks and streams. Furthermore, step-by-step instructions on deploying applications to providers such as DigitalOcean and Heroku will be provided, including information on setting up load balancers and proxies. Message queues and other techniques for managing state and session data at scale will also be covered. A series of examples on deploying your Node.js applications in production environments are provided,

including a discussion on setting up continuous deployment and integration for your team. Popular tools for testing, deploying, building, and monitoring Node.js applications are covered, helping you get up and running quickly.

ELECTRICAL AND COMPUTER ENGINEERING

FIRST INTERNATIONAL CONGRESS, ICECENG 2022, VIRTUAL EVENT, FEBRUARY 9-12, 2022, PROCEEDINGS

Springer Nature This book constitutes the refereed proceedings of the First International Congress, ICECENG 2022, held in February 2022. Due to COVID-19 pandemic the conference was held virtually. The 15 full and 2 short papers were selected from 48 submissions and are organized in 4 main tracks: technology trends, artificial intelligence, computing and security. The papers detail the application of formal methods to the construction and analysis of models describing technological processes at both micro and macro levels.

PRO PUPPET

Apress Pro Puppet, Second Edition, now updated for Puppet 3, is an in-depth guide to installing, using, and developing the popular configuration management tool Puppet. Puppet provides a way to automate everything from user management to server configuration. You'll learn how Puppet has changed in the latest version, how to use it on a variety of platforms, including Windows, how to work with Puppet modules, and how to use Hiera. Puppet is a must-have tool for system administrators, and Pro Puppet will teach you how to maximize its capabilities and customize it for your environment. Install and configure Puppet to immediately start automating tasks and create reporting solutions Learn insider tricks and techniques to better manage your infrastructure Become a Puppet expert!

TEST-DRIVEN INFRASTRUCTURE WITH CHEF

BRING BEHAVIOR-DRIVEN DEVELOPMENT TO INFRASTRUCTURE AS CODE

"O'Reilly Media, Inc." 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

LEARNING YII TESTING

Packt Publishing Ltd Developers who have a solid pre-existing knowledge of Yii's core concepts will find this book an ideal introduction to learning to write tests using Yii 2's tools. You'll learn to create faster and more reliable applications with less time and effort.

VAGRANT: UP AND RUNNING

O'Reilly Media, Incorporated How does Vagrant boosts the productivity of companies such as Mozilla, RackSpace, LivingSocial, and others? This comprehensive guide shows you how to create and distribute virtualized development environments with this powerful open source tool. While Virtual machines (VMs) are portable and easy to run, due to their isolation from outside interference, many developers and system administrators have shied away from VMs because of the pain of setup and maintenance. With this book, you'll learn how to gain the benefits of VMs without the hassle, using Vagrant to create a virtual machine that matches your production systems. Learn about Vagrant's general use, and the concepts behind the tool Get a practical, project-oriented approach that takes you from basic to advanced Vagrant use in a simple LAMP web application example Explore case studies from various organizations that use Vagrant Learn about common errors and get troubleshooting tips

PHP BEYOND THE WEB

Apress Use your existing web-based PHP skills to write all types of software: CLI scripts, desktop software, network servers, and more. This book gives you the tools, techniques, and background necessary to write just about any type of software you can think of, using the PHP you know. PHP Beyond the Web shows you how to take your knowledge of PHP development for the web and utilise it with a much wider range of software systems. Enjoy the benefits of PHP after reading this book: save money by redeploying existing skills, not learning new ones; save time and increase productivity by using a high-level language; and make money by providing your clients a full-stack service (not just websites). PHP is no longer just a great scripting language for websites, it's now a powerful general-purpose programming language. Expand your use of PHP into your back-end systems, server software, data processing services, desktop interfaces, and more. What You'll Learn Write interactive shell scripts Work with system daemons Write desktop software Build network servers Interface with electronics using PHP and the Raspberry Pi Manage performance, deployment, licensing, and system interaction Discover the software tools for development and get other great sources of technical information and help Who This Book Is For Experienced PHP programmers or experienced programmers interested in leveraging PHP outside the web development context. /div

LEARNING PUPPET 4

A GUIDE TO CONFIGURATION MANAGEMENT AND AUTOMATION

"O'Reilly Media, Inc." If you're a system administrator, developer, or site reliability engineer responsible for handling hundreds or even thousands of nodes in your network, the Puppet configuration management tool will make your job a whole lot easier. This practical guide shows you what Puppet does, how it works, and how it can provide significant value to your organization. Through hands-on tutorials, DevOps engineer Jo Rhatt demonstrates how Puppet manages complex and distributed components to ensure service availability. You'll learn how to secure configuration consistency across servers, clients, your router, and even that computer in your pocket by setting up your own testing environment. Learn exactly what Puppet is, why it was created, and what problems it solves Tailor Puppet to your infrastructure with a design that meets your specific needs Write declarative Puppet policies to produce consistency in your systems Build, test, and publish your own Puppet modules Manage network devices such as routers and switches with puppet device and integrated Puppet agents Scale Puppet servers for high availability and performance Explore web dashboards and orchestration tools that supplement and complement Puppet

ALFRESCO ONE 5.X DEVELOPER'S GUIDE

Packt Publishing Ltd Discover what it means to be an expert developer by exploring the latest features available to you in Alfresco One 5.x About This Book Create reliable and secure enterprise apps with the latest Alfresco One 5.x platform Explore all the latest Alfresco One 5.x APIs such as the CMIS API, Alfresco One API, and the integrated RESTful API to get more out of your enterprise apps Unleash the power of the latest JavaScript engine and the JavaScript API for Alfresco to customize your existing apps for the Alfresco 5 platform Who This Book Is For If you're an enterprise app developer who wants to create custom applications with Alfresco, then this book is for you. Previous knowledge with Alfresco would be helpful but is not necessary. What You Will Learn Create and manage a custom content model Configure the Alfresco Share user interface Build a new AngularJS 2.0 application Create business process definitions using Activiti Designer Discover the most common extensions provided by Alfresco Configure Alfresco to authenticate against LDAP, including & chaining" LDAP with Alfresco authentication Get familiar with the latest features of Alfresco Mobile SDK, Smart Search, and the new Angular framework In Detail Do you want to create more reliable and secure solutions for enterprise apps? Alfresco One 5.x is your gateway to developing the best industry-standard enterprise apps and this book will help you to become a pro with Alfresco One 5.x development. This book will help you create a complete fully featured app for your organization and while you create that perfect app, you will explore and implement the new and intriguing features of Alfresco. The book starts with an introduction to the Alfresco platform and you'll see how to configure and customize it. You will learn how to work with the content in a content management system and how you can extend it to your own use case. Next, you will find out how to work with Alfresco Share, an all-purpose user interface for general document management, and customize it. Moving on, you write web scripts that create, read, and

delete data in the back-end repository. Further on from that, you'll work with a set of tools that Alfresco provides; to generate a basic AngularJS application supporting use cases, to name a few authentication, document list, document view. Finally, you'll learn how to develop your own Alfresco Mobile app and understand how Smart Folders and Search manager work. By the end of the book, you'll know how to configure Alfresco to authenticate against LDAP, be able to set up Single Sign-On (SSO), and work with Alfresco's security services. Style and approach This book takes a step-by-step practical tutorial-style approach helping you create a complete enterprise app using Alfresco.

BEGINNING LARAVEL

BUILD WEBSITES WITH LARAVEL 5.8

[Apress](#) Develop cutting-edge websites and applications using the new features of Laravel 5.8. This book starts with an introduction to Laravel and takes a glance at its newly introduced features. Moving on to setting up your development environment, you will learn how the composer works. In addition to this, you will be introduced to Valet, Homestead, Virtual Box, Vagrant, and Forge in Laravel. With this foundation, you will be ready to get started writing your first Laravel apps. To do so, you will learn to manage routes and controllers and how the Blade template works. Moving on to models, you will work with route model binding and get to know the relationship between models, databases, and Eloquent. Along the way you will define methods on your Eloquent model classes using different types of relationships. Shifting focus to handling user data, you will see how redirect methods work. You will also get to know the inner workings of requests and responses. Continuing the data theme, Beginning Laravel covers basic and grouped artisan commands and how to handle databases with Tinker. By being able to handle data effectively, your applications will come alive for your users, giving them the functionality they need. The last section of the book handles core concepts such as sending emails, alerting users via notifications, and implementing SOLID design principles. You will see how to decouple your application classes by using events and listeners. What You Will Learn Protect your app with authentication and authorization Build a complex relationship between entities using Eloquent models Take advantage of containers and facadesUse the mail template Create and configure events Work with Laravel PassportDeploy API authentication Discover new Laravel 5.8 features such as dump server and email verification Who This Book Is For Those new to Laravel and PHP web development or those who have some background in PHP/Laravel who are new to Laravel's newest release.

AUTOMATION THROUGH CHEF OPSCODE

A HANDS-ON APPROACH TO CHEF

[Apress](#) Automation through Chef Opscode provides an in-depth understanding of Chef, which is written in Ruby and Erlang for configuration management, cloud infrastructure management, system administration, and network management. Targeted at administrators, consultants, and architect, the book guides them through the advanced features of the tool which are necessary for infrastructure automation, devops automation, and reporting. The book presumes knowledge of Ruby and Erlang which are used as reference languages for creating recipes and cookbooks and as a refresher on them to help the reader get on speed with the flow of book. The book provides step by step instructions on installation and configuration of Chef, usage scenarios of Chef, in infrastructure automation by providing common scenarios like virtual machine provisioning, OS configuration for Windows, Linux, and Unix, provisioning and configuration of web servers like Apache along with popular databases like MySQL. It further elaborates on the creation of recipes, and cookbooks, which help in deployment of servers and applications to any physical, virtual, or cloud location, no matter the size of the infrastructure. The books covers advanced features like LWRPs and Knife and also contains several illustrative sample cookbooks on MySQL, Apache, and CouchDB deployment using a step by step approach.

LEARNING VAGRANT

FAST PROGRAMMING GUIDE

[Createspace Independent Publishing Platform](#) This book is an exploration of Vagrant. The first part of the book discusses how network configuration can be performed. This includes both the private and public network. You will even learn how to enable port forwarding in your virtual machines. It is possible for us to work with multiple machines in Vagrant. This is discussed. You will learn how to configure multiple machines in a single vagrantfile. You will also learn the benefits of doing this. The process of installing and configuring the various software, commonly referred to as "provisioning," is discussed. You will learn how to do this by use of shell scripts. The process of creating Vagrant boxes is also been explored in detail. You will also learn more about the various commands which can be used for working with Vagrant boxes. Drupal is a good tool for web development. You will know how to use this in Vagrant, as well as Chef and Vagrant. The following topics are discussed in this book: - Configuring the Network for Vagrant Boxes - Multi-machine Environment - Shell Scripts for Provisioning a Vagrant Box - Creation of a Vagrant Box - Working with Vagrant Boxes - Vagrant and Drupal - Vagrant and Chef for creation of a Development Environment

ANSIBLE: UP AND RUNNING

["O'Reilly Media, Inc."](#) Among the many configuration management tools available, Ansible has some distinct advantages: It's minimal in nature. You don't need to install agents on your nodes. And there's an easy learning curve. With this updated third edition, you'll quickly learn how to be productive with Ansible whether you're a developer deploying code or a system administrator looking for a better automation solution. Authors Bas Meijer, Lorin Hochstein, and Rene Moser show 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 learn how Ansible has all the functionality you need--and the simplicity you desire. Explore Ansible configuration management and deployment Manage Linux, Windows, and network devices Learn how to apply Ansible best practices Understand how to use the new collections format Create custom modules and plug-ins Generate reusable Ansible content for open source middleware Build container images, images for cloud instances, and cloud infrastructure Automate CI/CD development environments Learn how to use Ansible Automation Platform for DevOps

AGILE DATA SCIENCE 2.0

BUILDING FULL-STACK DATA ANALYTICS APPLICATIONS WITH SPARK

["O'Reilly Media, Inc."](#) Data science teams looking to turn research into useful analytics applications require not only the right tools, but also the right approach if they're to succeed. With the revised second edition of this hands-on guide, up-and-coming data scientists will learn how to use the Agile Data Science development methodology to build data applications with Python, Apache Spark, Kafka, and other tools. Author Russell Jurney demonstrates how to compose a data platform for building, deploying, and refining analytics applications with Apache Kafka, MongoDB, Elasticsearch, d3.js, scikit-learn, and Apache Airflow. You'll learn an iterative approach that lets you quickly change the kind of analysis you're doing, depending on what the data is telling you. Publish data science work as a web application, and affect meaningful change in your organization. Build value from your data in a series of agile sprints, using the data-value pyramid Extract features for statistical models from a single dataset Visualize data with charts, and expose different aspects through interactive reports Use historical data to predict the future via classification and regression Translate predictions into actions Get feedback from users after each sprint to keep your project on track

LEARNING CFENGINE 3

AUTOMATED SYSTEM ADMINISTRATION FOR SITES OF ANY SIZE

["O'Reilly Media, Inc."](#) Get up to speed on CFEngine 3, the open source configuration management software that enables you to automate everything from one-server shops to enterprise computer networks. This hands-on introduction shows you how to use CFEngine 3 to implement and manage and your IT infrastructure in a sustainable, scalable, and efficient manner. Through numerous examples, you'll learn how to use CFEngine to perform tasks such as user management, software installation, and security. You'll also learn how to focus on higher-level issues of design, implementation and maintenance, knowing that CFEngine is handling the lower-level details for you automatically. Discover how far you can go with system automation, using CFEngine Become familiar with the software's principles, components, and policy structure Configure CFEngine step-by-step to perform routine tasks on your system Specify custom machine configuration without making changes by hand Get tricks and patterns that you can use in your own CFEngine policies

Maintain separate CFEngine environments for development, testing, production, or other uses

ANSIBLE

FROM BEGINNER TO PRO

Apres 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.

DEVELOPING MODERN DATABASE APPLICATIONS WITH POSTGRESQL

USE THE HIGHLY AVAILABLE AND OBJECT-RELATIONAL POSTGRESQL TO BUILD SCALABLE AND RELIABLE APPS

Packt Publishing Ltd Get up to speed with core PostgreSQL tasks such as database administration, application development, database performance monitoring, and database testing **Key Features** Build real-world enterprise database management systems using Postgres **12 features** Explore the development, administrative and security aspects of PostgreSQL **12** Implement best practices from industry experts to build powerful database applications **Book Description** PostgreSQL is an open-source object-relational database management system (DBMS) that provides enterprise-level services, including high performance and scalability. This book is a collection of unique projects providing you with a wealth of information relating to administering, monitoring, and testing PostgreSQL. The focus of each project is on both the development and the administrative aspects of PostgreSQL. Starting by exploring development aspects such as database design and its implementation, you'll then cover PostgreSQL administration by understanding PostgreSQL architecture, PostgreSQL performance, and high-availability clusters. Various PostgreSQL projects are explained through current technologies such as DevOps and cloud platforms using programming languages like Python and Node.js. Later, you'll get to grips with the well-known database API tool, PostgREST, before learning how to use popular PostgreSQL database testing frameworks. The book is also packed with essential tips and tricks and common patterns for working seamlessly in a production environment. All the chapters will be explained with the help of a real-world case study on a small banking application for managing ATM locations in a city. By the end of this DBMS book, you'll be proficient in building reliable database solutions as per your organization's needs. **What you will learn** Set up high availability PostgreSQL database clusters in the same containment, a cross-containment, and on the cloud Monitor the performance of a PostgreSQL database Create automated unit tests and implement test-driven development for a PostgreSQL database Develop PostgreSQL apps on cloud platforms using DevOps with Python and Node.js Write robust APIs for PostgreSQL databases using Python programming, Node.js, and PostgREST Create a geospatial database using PostGIS and PostgreSQL Implement automatic configuration by Ansible and Terraform for Postgres **Who this book is for** This PostgreSQL book is for database developers, database administrators, data architects, or anyone who wants to build end-to-end database projects using Postgres. This book will also appeal to software engineers, IT technicians, computer science researchers, and university students who are interested in database development and administration. Some familiarity with PostgreSQL and Linux is required to grasp the concepts covered in the book effectively.

DESIGN AND USE OF VIRTUALIZATION TECHNOLOGY IN CLOUD COMPUTING

IGI Global Cloud computing is rapidly expanding in its applications and capabilities through various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. **Design and Use of Virtualization Technology in Cloud Computing** is a crucial resource that provides in-depth discussions on the background of virtualization, and the ways it can help shape the future of cloud computing technologies. Highlighting relevant topics including grid computing, mobile computing, open source virtualization, and virtualization in education, this scholarly reference source is ideal for computer engineers, academicians, students, and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements.

HANDS-ON DEVOPS WITH VAGRANT

IMPLEMENT END-TO-END DEVOPS AND INFRASTRUCTURE MANAGEMENT USING VAGRANT

Packt Publishing Ltd Use Vagrant to easily build complete development environments **Key Features** Implement DevOps with Vagrant effectively Integrate Vagrant with different tools such as Puppet, Chef, and Docker Manage infrastructure with a practical approach **Book Description** Hands-On DevOps with Vagrant teaches you how to use Vagrant as a powerful DevOps tool and gives an overview of how it fits into the DevOps landscape. You will learn how to install VirtualBox and Vagrant in Windows, macOS, and Linux. You will then move on to understanding Vagrant commands, discovering its boxes and Vagrant Cloud. After getting to grips with the basics, the next set of chapters helps you to understand how to configure Vagrant, along with networking. You will explore multimachine, followed by studying how to create multiple environments and the communication between them. In addition to this, you will cover concepts such as Vagrant plugins and file syncing. The last set of chapters provides insights into provisioning shell scripts, also guiding you in how to use Vagrant with configuration management tools such as Chef, Ansible, Docker, Puppet, and Salt. By the end of this book, you will have grasped Vagrant's features and how to use them for your benefit with the help of tips and tricks. **What you will learn** Explore what development features Vagrant offers Install Vagrant and VirtualBox on Windows, macOS and Linux Harness the power of Vagrant to create powerful development environments Utilize DevOps tools such as Docker, Chef, and Puppet Understand everything about Vagrant, including networking, plugins, and provisioning Use the Vagrant Cloud to install and manage Vagrant boxes **Who this book is for** Hands-On DevOps with Vagrant is for you if you are a system administrator, DevOps engineer, DevOps architect, or any stakeholder working with DevOps and wanting to explore Vagrant. Experience in system administration is needed to enjoy this book.

PUPPET: MASTERING INFRASTRUCTURE AUTOMATION

Packt Publishing Ltd Start pulling the strings of your IT infrastructure effectively with Puppet - learn how to configure, customize and manage your systems more intelligently in an enterprise deployment. **About This Book** Step-by-step instructions to jump start your Puppet deployment and automate your IT configurations **Design, implement, and deploy Puppet** in your infrastructure and tackle everyday IT infrastructure challenges **Gain expert understanding of Puppet's latest and most advanced features** **Who This Book Is For** If you're an experienced IT professional and a new Puppet user, this course will provide you with all you need to know to go from installation to advanced automation. **What You Will Learn** Write and employ individual Puppet manifests Understand how Puppet implements system abstraction Use Puppet to manage network, cloud, and virtualization devices Manage and test the Puppet code workflow Tweak, hack, and adapt the Puppet extension points Use exported resources to orchestrate change between machines Debug a puppetserver using Java techniques **In Detail** Puppet is a configuration management tool that allows you to automate all your IT configurations, giving you control. It was written for and by system administrators to manage large numbers of systems efficiently and prevent configuration drifts. Puppet gives you control of what you do to each node, when you do it, and how you do it. **This Learning Path** will take you from the basics of Puppet to extending it and then mastering it. We will start off with a primer on Puppet, its installation and get a sneak peek under its hood. We will then move on to designing and deploying your Puppet architecture, learning best practices for writing reusable and maintainable code, and executing, testing, and deploying Puppet across your systems. Finally, we will deal with problems of scale and exceptions in your code, automate workflows, and support multiple developers working simultaneously. **This course is based on the following books:** Puppet 4 Essentials - Second Edition Extending Puppet - Second Edition Mastering Puppet - Second Edition **Style and approach** This learning path follows a practical approach, starting from the basic commands to advanced aspects. Through a series of examples you will learn the most important skills essential to manage your IT infrastructure effectively.

WORDPRESS PLUGIN DEVELOPMENT COOKBOOK

[Packt Publishing Ltd](#) Learn to create plugins for WordPress 4.x to deliver custom projects or share with the community through detailed step-by-step recipes and code examples About This Book Learn how to change and extend WordPress to perform virtually any task Explore the plugin API through approachable examples and detailed explanations Mold WordPress to your project's needs or transform it to benefit the entire community Who This Book Is For If you are a WordPress user, developer, or a site integrator with basic knowledge of PHP and an interest to create new plugins to address your personal needs, client needs, or share with the community, then this book is for you. What You Will Learn Discover how to register user callbacks with WordPress, forming the basis of plugin creation Explore the creation of administration pages and adding new content management sections through custom post types and custom database tables Improve your plugins by customizing the post and page editors, categories and user profiles, and creating visitor-facing forms Make your pages dynamic using Javascript, AJAX and adding new widgets to the platform Learn how to add support for plugin translation and distribute your work to the WordPress community In Detail WordPress is a popular, powerful, and open Content Management System. Learning how to extend its capabilities allows you to unleash its full potential, whether you're an administrator trying to find the right extension, a developer with a great idea to enhance the platform for the community, or a website developer working to fulfill a client's needs. This book shows readers how to navigate WordPress' vast set of API functions to create high-quality plugins with easy-to-configure administration interfaces. With new recipes and materials updated for the latest versions of WordPress 4.x, this second edition teaches you how to create plugins of varying complexity ranging from a few lines of code to complex extensions that provide intricate new capabilities. You'll start by using the basic mechanisms provided in WordPress to create plugins and execute custom user code. You will then see how to design administration panels, enhance the post editor with custom fields, store custom data, and modify site behavior based on the value of custom fields. You'll safely incorporate dynamic elements on web pages using scripting languages, and build new widgets that users will be able to add to WordPress sidebars and widget areas. By the end of this book, you will be able to create WordPress plugins to perform any task you can imagine. Style and approach This cookbook will take you through the creation of your first simple plugin to adding entirely new sections and widgets in the administration interface, so you can learn how to change and extend WordPress to perform virtually any task. Each topic is illustrated through realistic examples showing how to solve common problems, followed by detailed explanations of all concepts used