

Practical Apache, PHP FPM Nginx Reverse Proxy: How To Build A Secure, Fast And Powerful Webserver From Scratch (Practical Guide Series Book 3)

Apache remains the most widely used Web server platform, running more than half of the world's Web sites. This pocket reference guide features up-to-date information for Apache administrators.

NGINX is one of the most widely used web servers available today, in part because of its capabilities as a load balancer and reverse proxy server for HTTP and other network protocols. This cookbook provides easy-to-follow examples to real-world problems in application delivery. The practical recipes will help you set up and use either the open source or commercial offering to solve problems in various use cases. For professionals who understand modern web architectures, such as n-tier or microservice designs, and common web protocols including TCP and HTTP, these recipes provide proven solutions for security, software load balancing, and monitoring and maintaining NGINX's application delivery platform. You'll also explore advanced features of both NGINX and NGINX Plus, the free and licensed versions of this server. You'll find recipes for: High-performance load balancing with HTTP, TCP, and UDP Securing access through encrypted traffic, secure links, HTTP authentication subrequests, and more Deploying NGINX to Google Cloud, AWS, and Azure cloud computing services Setting up and configuring NGINX Controller Installing and configuring the NGINX Plus App Protect

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module Enabling WAF through Controller ADC

Performance simply matters. Technology may allow us to "go bigger", but maybe not necessarily be better when it comes to performance. Now is the time to utilize the amazing tools that are available for making websites faster, and to learn how to improve user experience and satisfaction. This is a practical collection of tutorials on back-end website performance for web developers. It's packed with useful, real world hints and tips that you can use on your sites today. It contains: How to Optimize MySQL: Indexes, Slow Queries, Configuration by Bruno Skvorc How to Read Big Files with PHP (Without Killing Your Server) by Chris Pitt WordPress Optimization by Tonino Jankov HTTP/2: Background, Performance Benefits and Implementations by Tonino Jankov Apache vs Nginx Performance: Optimization Techniques by Tonino Jankov An In-depth Walkthrough of Supercharging Apps with Blackfire by Reza Lavaryan How to Boost Your Server Performance with Varnish by Tonino Jankov How to Process Server Logs by Daniel Berman This book is for all back-end developers who wish to build sites and apps that are more performant. You'll need to be familiar with server-side development in order to follow the discussion.

This book is a practical step-by-step tutorial with well-explained code snippets, best-practice tips, and reference tables. If you are an experienced systems administrator or systems engineer, familiar with installing and configuring servers to meet specific needs and want to master NGINX, then this book is for you. You do not need to have experience using NGINX already.

Ace the ZCE 2017-PHP Exam

For Apache Programmers & Administrators

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Modern PHP

Your Essential Guide to the Everyday Skills Expected of a Modern Full Stack Web Developer

Automate cloud, security, and network infrastructure using Ansible 2.x

A Practical Guide to Linux System Administration

Performance simply matters. Technology may allow us to "go bigger", but maybe not necessarily be better when it comes to performance. Now is the time to utilize the amazing tools that are available for making websites faster, and to learn how to improve user experience and satisfaction. This is a practical collection of tutorials on some of the most popular and powerful website performance tools available. It's packed with useful, real world hints and tips that you can use on your sites today. It contains: 23 Development Tools for Boosting Website Performance by Ahmed Bouchefra Improving Page Load Performance: Pingdom, YSlow and GTmetrix by Tonino Jankov PHP-FPM Tuning: Using pm static for Max Performance by Hayden James Optimization Auditing: A Deep Dive into Chrome's Dev Console by Ahmed Bouchefra Performance Auditing: A Firefox Developer Tools Deep Dive by Ahmed Bouchefra Web App Performance Testing with Siege: Plan, Test, Learn by Zoran Antolovic This book is for all developers who wish to build

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sites and apps that run faster. It covers a range of performance tools; some familiarity with web performance terms and techniques is assumed.

Ansible is an IT automation and configuration management tool widely used for infrastructure, cloud, and network automation. Trends and surveys say that Ansible is the choice of tool among system administrators as it is so easy to use. In this book, you'll learn how to integrate Ansible into your day-to-day role as a system administrator,

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Build modern, fast, and progressive web applications using modern features of PHP 7 and TypeScript Key Features Explore the latest features of Angular and Laravel to build applications that are powerful, consistent, and maintainable Develop modern user interfaces with a reusable component-based architecture using Angular 6 and Bootstrap 4 Learn how to build secure backend APIs with Laravel Book

Description Angular, considered as one of the most popular and powerful frontend frameworks, has undergone a major overhaul to embrace emerging web technologies so that developers can build cutting-edge web applications. This book gives you practical

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knowledge of building modern full-stack web apps from scratch using Angular with a Laravel Restful back end. The book begins with a thorough introduction to Laravel and Angular and its core concepts like custom errors messages, components, routers, and Angular-cli, with each concept being explained first, and then put into practice in the case-study project. With the basics covered, you will learn how sophisticated UI features can be added using NgBootstrap and a component-based architecture. You will learn to extend and customize variables from Bootstrap CSS framework. You will learn how to create secure web application with Angular and Laravel using token based authentication. Finally, you will learn all about progressive web applications and build and deploy a complete fullstack application using Docker and Docker-compose. By the end of this book, you'll gain a solid understanding of Angular 6 and how it interacts with a Laravel 5.x backend

What you will learn

- Explore the core features of Angular 6 to create sophisticated user interfaces
- Use Laravel 5 to its full extent to create a versatile backend layer based on RESTful APIs
- Configure a web application in order to accept user-defined data and persist it into the database using server-side APIs
- Build an off-line-first application

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using service-worker and manifest file Deal with token based authentication on single page application (SPA). Secure your application against threats and vulnerabilities in a time efficient way Deploy using Docker and Docker-compose Who this book is for This book targets developers who are new to Angular, Laravel, or both, and are seeking a practical, best-practice approach to development with these technologies. They must have some knowledge of HTML, CSS and JavaScript. Familiarity of PHP is assumed to get the most from this book.

Learn the skills to complete the full installation, configuration, and maintenance of an enterprise class internet server, no matter what Unix-like operating system you prefer. This book will rapidly guide you towards real system administration, with clear explanations along the way. After a chapter explaining the most important Unix basics, you will start with a vanilla server as delivered by a hosting provider and by the end of the book, you will have a fully functional and well-secured enterprise class internet server. You will also be equipped with the expertise needed to keep your server secured and up to date. All configuration examples are given for FreeBSD, Debian and CentOS, so

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you are free to choose your operating system. No single blueprint exists for an internet server, and an important part of the work of a system administrator consists of analyzing, interpreting and implementing specific wishes, demands and restrictions from different departments and viewpoints within an organization. Practical Internet Server Configuration provides the information you need to succeed as a sysadmin. What You'll Learn Configure DNS using Bind 9 Set up Apache and Nginx Customize a mail server: IMAP (Dovecot) and SMTP (Postfix), spam filtering included Authenticate mail users using LDAP Install and maintain MariaDB and PostgreSQL databases Prepare SSL/TLS certificates for the encryption of web, mail and LDAP traffic Synchronize files, calendars and address books between devices Build a firewall: PF for FreeBSD and nftables for Linux Who This Book Is For This book can be used by aspiring and beginning system administrators who are working on personal servers, or more experienced system administrators who may know Unix well but need a reference book for the more specialized work that falls outside the daily routine. Basic understanding of Unix and working on the command line is necessary.

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Red Hat Enterprise Linux Troubleshooting Guide

PHP Microservices

Back-end Performance

Learning PHP 7 High Performance

Learn to Build a Fully Functional and Well-Secured Enterprise Class

Internet Server

Beginner's Guide

*Authoritative Answers to All Your Apache Questions--Now Updated to Cover Apache 2.0 Linux Apache Web Server Administration is the most complete, most advanced guide to the Apache Web server you'll find anywhere. Written by a leading Apache expert--and now updated to cover Apache 2.0--this book teaches you, step-by-step, all the standard and advanced techniques you need to know to administer Apache on a Linux box. Hundreds of clear, consistent examples illustrate these techniques in detail--so you stay on track and accomplish all your goals. Coverage includes: * Compiling Apache from source code * Creating and hosting virtual web sites * Using Server-Side Includes to create Web pages with dynamic content * Using Apache directives to configure your site * Extending Apache using add-on modules * Using*

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*the Common Gateway Interface for web programming * Enhancing the performance of CGI programs with FastCGI and mod_perl * Installing Apache support for PHP * Extending Apache to run Java servlets or Java Server Pages * Attaching Apache to a database server * Using URL rewriting for increased request-handling flexibility * Implementing user authentication * Adding Secure Sockets Layer for enhanced system security * Customizing Apache's log formats*

The Craig Hunt Linux Library The Craig Hunt Linux Library provides in-depth, advanced coverage of the key topics for Linux administrators. Topics include Samba, System Administration, DNS Server Administration, Network Servers, Security, and Sendmail. Each book in the series is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage for networking professionals working specifically in Linux environments.

Performance simply matters. Technology may allow us to "go bigger", but maybe not necessarily be better when it comes to performance. Now is the time to utilize the amazing tools that are available to us for making websites and applications faster, and to learn how to improve user experience and satisfaction. This collection contains four books:

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Front-end Performance is a collection of practical articles on front-end website performance for front-end developers. It's packed with useful, real world hints and tips that you can use on your sites today. Back-end Performance is a collection of articles on back-end website performance for web developers. It outlines useful strategies and practical advice. Performance Tools contains tutorials on some of the most popular and powerful website performance tools available. Performance Project contains a series of practical, real-world tutorials, all based around a single project: a simple image gallery blog. We'll build the project, and then run through a series of performance optimization processes; by the time we're done, we'll have achieved very significant performance improvements. This collection is for developers who wish to build sites and apps that run faster. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion, and for book 2, Back-end Performance, you'll need some understanding of server-side development.

Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular

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Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

This book highlights practical sysadmin skills, common architectures that you'll encounter, and best practices that apply to automating and running systems at any scale, from one laptop or server to 1,000 or

more. It is intended to help orient you within the discipline, and hopefully encourages you to learn more about system administration.

Code Happy

UNIX and Linux System Administration Handbook

The Full Stack Developer

From Beginner to Pro

NGINX Unit Cookbook

“As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. This is one of those cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against.”

—Tim O’Reilly, founder of O’Reilly Media “This edition is for those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive.” —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security

“This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems’ history but doesn’t blivate. It’s just straight-forward information delivered in a colorful and memorable fashion.” —Jason A.

Nunnelley UNIX® and Linux® System Administration Handbook, Fifth Edition, is

today's definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written guide will improve your efficiency and help solve your knottiest problems.

Performance is one of the main issues that every administrator faces at one point or another. This book will help you to identify and mitigate it. The book starts with an introduction to Zabbix and the most common mistakes that are usually overlooked while deploying it. You will discover the importance of an impressive and easy-to-use front-end and how to develop one, along with comparisons between Apache, Nginx, and lighttpd web servers. Storage, as an important aspect of every deployment, is covered and you will be shown how to choose the right storage system for you and configure it to suit your deployment. Towards the end of the book, you will walk through the intricacies of the operating system; the final piece of the puzzle that holds all the components together. You

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will then dive into advanced topics including using a specific piece of hardware for each of the components, the Zabbix proxy, and firewall settings. By the end of the book, you will be able to tune your Zabbix implementation to achieve maximum performance.

Learn how to build a real-world serverless application in the cloud that's reliable, secure, maintainable, and scalable. If you have experience building web applications on traditional infrastructure, this hands-on guide shows you how to get started with Cloud Run, a container-based serverless product on Google Cloud. Through the course of this book, you'll learn how to deploy several example applications that highlight different parts of the serverless stack on Google Cloud. Combining practical examples with fundamentals, this book will appeal to developers who are early in their learning journey as well as experienced practitioners. Build a serverless application with Google Cloud Run Learn approaches for building containers with (and without) Docker Explore Google Cloud's managed relational database: Cloud SQL Use HTTP sessions to make every user's experience unique Explore identity and access management (IAM) on Cloud Run Provision Google Cloud resources using Terraform Learn how to handle background task scheduling on Cloud Run Move your service from Cloud Run to Knative Serving with little effort

Learn the art of PHP programming through this example-rich book filled to the brim with tutorials every PHP developer needs to know About This Book Set up the PHP environment and get started with web programming Leverage the potential of PHP for

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server-side programming, memory management, and object-oriented programming (OOP)

This book is packed with real-life examples to help you implement the concepts as you learn Who This Book Is For If you are a web developer or programmer who wants to create real-life web applications using PHP 7, or a beginner who wants to get started with PHP 7 programming, this book is for you. Prior knowledge of PHP, PHP 7, or programming is not mandatory. What You Will Learn Set up a server on your machine with PHP Use PHP syntax with the built-in server to create apps Apply the OOP paradigm to PHP to write richer code Use MySQL to manage data in your web applications Create a web application from scratch using MVC Add tests to your web application and write testable code Use an existing PHP framework to build and manage your applications Build REST APIs for your PHP applications Test the behavior of web applications with Behat In Detail PHP is a great language for building web applications. It is essentially a server-side scripting language that is also used for general purpose programming. PHP 7 is the latest version with a host of new features, and it provides major backwards-compatibility breaks. This book begins with the fundamentals of PHP programming by covering the basic concepts such as variables, functions, class, and objects. You will set up PHP server on your machine and learn to read and write procedural PHP code. After getting an understanding of OOP as a paradigm, you will execute MySQL queries on your database. Moving on, you will find out how to use MVC to create applications from scratch and add tests. Then, you will build REST APIs and

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perform behavioral tests on your applications. By the end of the book, you will have the skills required to read and write files, debug, test, and work with MySQL. Style and approach This book begins with the basics that all PHP developers use every day and then dives deep into detailed concepts and tricks to help you speed through development. You will be able to learn the concepts by performing practical tasks and implementing them in your daily activities, all at your own pace.

Mastering Nginx - Second Edition

Learning Raspberry Pi

Lumen Programming Guide

From Novice to Professional

Squid Proxy Server 3.1

Making Servers Work

Identify, capture and resolve common issues faced by Red Hat Enterprise Linux administrators using best practices and advanced troubleshooting techniques

About This Book Develop a strong understanding of the base tools available within Red Hat Enterprise Linux (RHEL) and how to utilize these tools to

troubleshoot and resolve real-world issues Gain hidden tips and techniques to help you quickly detect the reason for poor network/storage performance

Troubleshoot your RHEL to isolate problems using this example-oriented guide full of real-world solutions Who This Book Is For If you have a basic knowledge

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of Linux from administration or consultant experience and wish to add to your Red Hat Enterprise Linux troubleshooting skills, then this book is ideal for you. The ability to navigate and use basic Linux commands is expected. What You Will Learn Identify issues that need rapid resolution against long term root cause analysis Discover commands for testing network connectivity such as telnet, netstat, ping, ip and curl Spot performance issues with commands such as top, ps, free, iostat, and vmstat Use tcpdump for traffic analysis Repair a degraded file system and rebuild a software raid Identify and troubleshoot hardware issues using dmesg Troubleshoot custom applications with strace and knowledge of Linux resource limitations In Detail Red Hat Enterprise Linux is an operating system that allows you to modernize your infrastructure, boost efficiency through virtualization, and finally prepare your data center for an open, hybrid cloud IT architecture. It provides the stability to take on today's challenges and the flexibility to adapt to tomorrow's demands. In this book, you begin with simple troubleshooting best practices and get an overview of the Linux commands used for troubleshooting. The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL. Then, you will learn to identify system performance bottlenecks and troubleshoot network issues; all while learning about vital troubleshooting steps such as understanding the problem statement, establishing a hypothesis, and

understanding trial, error, and documentation. Next, the book will show you how to capture and analyze network traffic, use advanced system troubleshooting tools such as strace, tcpdump & dmesg, and discover common issues with system defaults. Finally, the book will take you through a detailed root cause analysis of an unexpected reboot where you will learn to recover a downed system. Style and approach This is an easy-to-follow guide packed with examples of real-world core Linux concepts. All the topics are presented in detail while you're performing the actual troubleshooting steps.

A practical book on real-world NGINX deployments to get you up and running quickly. About This Book Be the first to immerse yourself in the NGINX 1.9x web server and explore the plethora of advanced features. Master the skills of load balancing TCP-based applications and implementing HTTP/2. A recipe-based approach book that provides you with up-to-date information on NGINX, allowing you to implement specific use cases immediately. Who This Book Is For This book is aimed at smaller-to-medium developers, who are just getting started with NGINX. It assumes they already understand the basics of how a web server works and how basic networking works. What You Will Learn Practical, real-world examples and recipes on how to use NGINX Common CMS deployments such as WordPress, Joomla and more NGINX configurations for frameworks such as Ruby on Rails, Django and more Detailed SSL recipes, including HTTP/2

Real world rewrite examples Basic web and TCP load balancing configuration Bandwidth management and connection limiting Detailed NGINX deployment scenarios with Docker Performance tuning and monitoring of your NGINX deployments OpenResty deployment guides Advanced deployments with NGINX Plus features In Detail NGINX Cookbook covers the basics of configuring NGINX as a web server for use with common web frameworks such as WordPress and Ruby on Rails, through to utilization as a reverse proxy. Designed as a go-to reference guide, this book will give you practical answers based on real-world deployments to get you up and running quickly. Recipes have also been provided for multiple SSL configurations, different logging scenarios, practical rewrites, and multiple load balancing scenarios. Advanced topics include covering bandwidth management, Docker container usage, performance tuning, OpenResty, and the NGINX Plus commercial features. By the time you've read this book, you will be able to adapt and use a wide variety of NGINX implementations to solve any problems you have.

Nginx is a high-performance HTTP web server and it's quickly displacing Apache as the choice for the largest websites today. Nginx is not another book filled with regurgitated documentation. Instead, it's a practical guide that will solve the most common use cases, examples and deep understanding of the parts that matter. Filled with real-world applications, use cases, and lessons learnt scaling Nginx to

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50 million users, with this book, readers will get up and running quickly and learn the tools necessary to configure and deploy with Nginx.

Discover practical recipes to help you efficiently monitor enterprise IT infrastructure for Windows, Linux, and networking Key Features Find out how you can leverage some of the most exciting features of Zabbix 5 Perform professional IT infrastructure and application monitoring on multiple platforms Discover easy-to-follow, practical solutions to problems in network monitoring with Zabbix Book Description Zabbix offers useful insights into your infrastructure performance and issues and enables you to enhance your monitoring setup with its variety of powerful features. This book covers hands-on, easy-to-follow recipes for using Zabbix 5 for effectively monitoring the performance of devices and applications over networks. The book starts by guiding you through the installation of Zabbix and using the Zabbix frontend. You'll then work your way through the most prominent features of Zabbix and make the right design choices for building a scalable and easily manageable environment. The book contains recipes for building items and triggers for different types of monitoring, building templates, and using Zabbix proxies. As you advance, you'll learn how to use the Zabbix API for customization and manage your Zabbix server and database efficiently. Finally, you'll find quick solutions to the common and not-so-common problems that you may encounter in your everyday Zabbix monitoring work. By the end of

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this Zabbix book, you'll have learned how to use Zabbix for all your monitoring needs and be able to build a solid Zabbix setup by leveraging its key functionalities. What you will learn
Explore the different types of monitoring available in Zabbix
Find out how to build your own Zabbix templates
Use Zabbix proxies for effective load balancing/scaling
Work with custom integrations and the Zabbix API
Set up triggers and alerting with Zabbix
Maintain your Zabbix setup for scaling, backups, and upgrades
Discover how to perform advanced Zabbix database management
Monitor cloud-based products such as Amazon Web Services (AWS), Azure, and Docker
Who this book is for This book is for IT engineers who want to get started with Zabbix and anyone with an intermediate understanding of Zabbix looking to extend their knowledge. Although not necessary, prior experience with Zabbix will help you to make the most of this book.

Zabbix 5 IT Infrastructure Monitoring Cookbook

Infrastructure as Code (IAC) Cookbook

Learning PHP 7

Kubernetes for Full-Stack Developers

Learn Ansible

Hands-On Full Stack Web Development with Angular 6 and Laravel 5

Improve the performance of your PHP application to ensure the application users aren't

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left waiting About This Book Make the optimum use of PHP coding to improve your programming productivity Leverage the potential of PHP for server-side programming, memory management, and object-oriented programming Packed with real-life examples to help the readers implement concepts as they learn Who This Book Is For This book is for those who have basic experience in PHP programming. If you are developing performance-critical applications, then this book is for you. What You Will Learn Setup high performance development and production environment for PHP 7 Discover new OOP features in PHP 7 to achieve high performance Improve your PHP applications' performance Attain improved database performance Benchmark PHP applications to optimize them Write quality code by learning to improve code reusability, simplicity, and expressiveness Get rid of the bottlenecks in your PHP 7 applications by writing PHP code optimally Tackle issues related to web applications, such as high user dependency and large datasets In Detail PHP is a great language for building web applications. It is essentially a server-side scripting language that is also used for general-purpose programming. PHP 7 is the latest version, providing major backward-compatibility breaks and focusing on high performance and speed. This fast-paced introduction to PHP 7 will improve your productivity and coding skills. The concepts covered will allow you, as a PHP programmer, to improve the performance standards of your applications. We will introduce you to the new features in PHP 7 and then will run through the concepts of object-oriented programming (OOP) in PHP 7. Next, we will shed some light on how to improve your PHP 7 applications' performance and database performance. Through this book, you will be able to improve the performance of your

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programs using the various benchmarking tools discussed. At the end, the book discusses some best practices in PHP programming to help you improve the quality of your code. Style and approach The book is a step-by-step guide to improve the quality of your code in PHP through real-time examples. The book takes a practical approach to improving the quality of your code.

NGINX is one of the most common free, open source web servers. Its performance-oriented architecture and small footprint makes it an ideal choice for high-traffic websites. NGINX offers great performance and optimal resource utilization to its administrators. This practical guide walks you through how to tune one of the leading free open source web servers to attain optimal performance for high-traffic sites. It also explores ways to improve network utilization for high loads. The tour starts with an overview of the NGINX architecture. You will build and configure NGINX for optimal utilization of the hardware available. The book demonstrates various practices to improve last mile content delivery by using timeouts, caching, and compression. You'll also discover various free open source tools to test and benchmark web server performance, allowing you to verify NGINX performance at every step.

If you have a passion for technology and want to explore the world of Raspberry Pi, then this book provides you with all the tools and information you are looking for. Although being familiar with basic programming concepts is useful, you can still learn a lot from this book as a wide variety of topics are covered.

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.

Magento 2 Cookbook

New Features and Good Practices

Nginx

Ansible

Performance Tools

The Definitive Guide

Improve the performance of your network using the caching and access control capabilities of Squid.

Alongside its popular web server, NGINX provides a dynamic application server that supports configuration through a RESTful JSON API. The open source NGINX Unit server deploys configuration changes without service disruptions and runs apps built with multiple languages and frameworks. This updated cookbook shows developers, DevOps personnel, network admins, and cloud infrastructure pros how to quickly get started with NGINX Unit. Hands-on recipes demonstrate Unit's new approach and show you how to deploy and configure this server for different applications. You'll learn how to run applications written in different languages on the same server, how to use NGINX Unit as the foundation for your web application development environment, and how Unit's RESTful API simplifies configuration. Learn how Unit differs from other middleware application servers Install Unit using source code, Red Hat and Debian systems, or third-party repositories Configure Unit using application, router, and listener

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objects Start and stop the Unit server and the applications it runs Manage user permissions, Linux namespace isolation, and API security Run WordPress, Django, and other web applications with Unit Serve applications with an NGINX proxy or load balancer

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

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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.

Describes the history of the Web server platform and covers downloading and compiling, configuring and running the program on UNIX, writing specialized modules, and establishing security routines.

Solutions and Examples for Apache Administration

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Zabbix Performance Tuning

Become fluent in both frontend and backend web development with Docker, Angular and Laravel

Explore the new features of Zabbix 5 for designing, building, and maintaining your Zabbix setup

Building Serverless Applications with Google Cloud Run

Apache 2 Pocket Reference

Understand the technical foundations, as well as the non-programming skills needed to be a successful full stack web developer. This book reveals the reasons why a truly successful full stack developer does more than write code. You will learn the principles of the topics needed to help a developer new to agile or full stack working—UX, project management, QA, product management, and more— all from the point of view of a developer. Covering these skills alongside the fundamentals and foundations of modern web development, rather than specifics of current technologies and frameworks (which can age quickly), all programming examples are given in the context of the web as it is in 2018. Although you need to feel comfortable working on code at the system, database, API, middleware or user interface level, depending on the task in hand, you also need to be able to deal with the big picture and the little details. The Full Stack Developer recognizes skills beyond the technical, and gives foundational knowledge of the wide set of skills needed in a modern software development team. What You'll Learn Plan your

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work including Agile vs Waterfall, tools, scrum, kanban and continuous delivery Translate UX into code: grids, component libraries and style guides Design systems and system architectures (microservices to monoliths) Review patterns for APIs (SOAP, AJAX, REST), defining API domains, patterns for REST APIs and more API goodness Study the various front-end design patterns you need to know Store data, what to consider for security, deployment, in production and more Who This Book Is For New graduates or junior developers who are transitioning to working as part of a larger team structure in a multi-disciplinary teams and developers previously focused on only front-end or back-end dev transitioning into full stack.

Teaches you to start up Nginx and quickly take your expertise to a level where you can comfortably work with various aspects of the web server and make informed design decisions for your web farm. Nginx powers more than 40% of the top 1000 websites and is among the handful of web servers that can handle more than 10K simultaneous connections. It has some features which are simply unparalleled. Nginx: From Beginner to Pro teaches the Nginx server in a practical way. Frequently, it is found that web administrators struggle to fix the skill set gaps that happen due to a platform change. Migration from IIS & Apache becomes tedious at best. The book is targeted toward real-world administrators who would want to get up to speed as soon as possible and make good, informed design decisions. First you will set up Nginx and understand the architectural nuances. Then you will learn how to scale out, secure, monitor and

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troubleshoot the web server. Once you are fully comfortable with Nginx, you will start learning about migrating applications (or its part) from IIS or Apache web servers. Finally, you will learn to troubleshoot and maintain your Nginx professionally. Written by an author who has gone through the rough phase while moving from IIS/Apache to Nginx, this book is practical and filled with step-by-step instructions to make your time with Nginx as straightforward as possible. What You Will Learn Install and set up Nginx on CentOS, Ubuntu & Mac. Understand Nginx modules and compiling Nginx with appropriate modules. Learn about basic configuration and architecture along with hosting nuances. Load balance Nginx and use it as a highly available web platform. Monitor traffic and automate common administrative tasks. Use scripts to perform routine checks for health issues. Implement security and authentication in Nginx. Learn how and what to migrate from IIS & Apache web servers. Who This Book Is For Provides a crisp background of Nginx and then gears towards technical and practical topics. You need to know HTTP protocol, and have basic knowledge of Linux and networking concepts. The target audience is web administrators who would like to learn the finer nuances of Nginx, or map their existing skillset from IIS or Apache.

Improve your programming knowledge and become Zend Certified. This book closely follows the ZCE2017-PHP exam syllabus and adds important details that help candidates to prepare for the test. Zend Certification is an industry recognized standard for PHP engineers. It is very difficult to pass the examination without extensive preparation. Unlike

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other books on PHP, this book is very focused on reaching industry standards. The Zend examination syllabus is comprised of three focus areas and a number of additional topics. This book explains the structure of the examination and then addresses each of the topics for PHP 7. A short quiz follows each chapter to help identify gaps in your knowledge. PHP 7 Zend Certification Study Guide also contains a practice test containing 70 questions from the entire syllabus to use when reviewing for your exams. The book provides original code examples throughout and every php featured is explained clearly with examples and uses an efficient way to describe the most important details of the particular feature. What You'll Learn Brush up your knowledge of PHP programming Explore new features of the PHP v7.1 Build a secure configuration of your server Review strategies and tips to get Zend Certified Who this Book Is For Intermediate PHP programmers with two or three years of experience who are appearing for the Zend certification exams and programmers who are proficient in other languages, but want a quick reference book to dive into PHP.

Nginx From Beginner to Pro Apress

Practical Internet Server Configuration

Mastering Nginx

NGINX High Performance

Apache

Linux Apache Web Server Administration

The Web Performance Collection

**** This best-selling title has comprehensive discussions about PHP 5, MySQL 5, and how these two popular open source technologies work together to create powerful websites. * Updated to reflect the new features found in MySQL's most significant release to date. Readers are introduced to advanced database features like triggers, stored procedures, and views. They learn how to integrate these new capabilities into their PHP-driven web applications. The book also discusses PHP's new MySQL extension, mysqli, which is required for MySQL versions 4.1 and higher. * Packed with hundreds of practical examples covering all aspects of web development, including forms management, templating, database integration, Web services, security, and session handling.***

This is a collection of problems, solutions, and practical examples for webmasters, web administrators, programmers, and anyone who works with Apache.

Transit from monolithic architectures to highly available, scalable, and fault-tolerant microservices About This Book Build your own applications based on event-driven microservices and set them up on a production server.

Successfully transform any monolithic application into a microservice.

Monitor the health of your application, prevent downtime, and reduce costs.

Who This Book Is For PHP developers who want to build scalable, highly

available, and secure applications will find this book useful. No knowledge of microservices is assumed. What You Will Learn Set up a development environment using the right strategies and tools. Learn about application design and structure to start implementing your application. Transform a monolithic application into microservices. Explore the best way to start implementing your application using testing. Understand how to monitor your microservices, handle errors, and debug the application. Deploy your finished application into a production environment and learn how to solve common problems. Know how to scale your application based on microservices once it is up-and-running. In Detail The world is moving away from bulky, unreliable, and high-maintenance PHP applications, to small, easy-to-maintain and highly available microservices and the pressing need is for PHP developers to understand the criticalities in building effective microservices that scale at large. This book will be a reliable resource, and one that will help you to develop your skills and teach you techniques for building reliable microservices in PHP. The book begins with an introduction to the world of microservices, and quickly shows you how to set up a development environment and build a basic platform using Docker and Vagrant. You will then get into the different design aspects to be considered while building microservices in your favorite framework and you will explore

topics such as testing, securing, and deploying microservices. You will also understand how to migrate a monolithic application to the microservice architecture while keeping scalability and best practices in mind. Furthermore you will get into a few important DevOps techniques that will help you progress on to more complex domains such as native cloud development, as well as some interesting design patterns. By the end of this book you will be able to develop applications based on microservices in an organized and efficient way. You will also gain the knowledge to transform any monolithic applications into microservices. Style and approach Filled with code that you can start typing straightaway, this book will take you through building, testing, securing, and deploying microservices in the most practical way possible. The focus of the book is more inclined towards showing you how it's done, rather than with what to do, although you will get a good idea of those tools most widely used to build microservices. This book is designed to help newcomers and experienced users alike learn about Kubernetes. Its chapters are designed to introduce core Kubernetes concepts and to build on them to a level where running an application on a production cluster is a familiar, repeatable, and automated process. From there, more advanced topics are introduced, like how to manage a Kubernetes cluster itself.

A Practical Guide to High Performance

Beginning PHP and MySQL 5

Writing PHP Microservices, REST and Web Service APIs

Apache Cookbook

PHP 7 Zend Certification Study Guide

NGINX Cookbook

PHP is experiencing a renaissance, though it may be difficult to tell with all of the outdated PHP tutorials online. With this practical guide, you ' ll learn how PHP has become a full-featured, mature language with object-orientation, namespaces, and a growing collection of reusable component libraries. Author Josh Lockhart—creator of PHP The Right Way, a popular initiative to encourage PHP best practices—reveals these new language features in action. You ' ll learn best practices for application architecture and planning, databases, security, testing, debugging, and deployment. If you have a basic understanding of PHP and want to bolster your skills, this is your book. Learn modern PHP features, such as namespaces, traits, generators, and closures Discover how to find, use, and create PHP components Follow best practices for application security, working with databases, errors and exceptions, and more Learn tools and techniques for deploying, tuning, testing, and profiling your PHP applications Explore Facebook ' s HVVM and Hack language implementations—and how they affect modern PHP Build a local development environment that closely matches your

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production server

Over 50 practical recipes that will help you realize the full potential of Magento in order to build a professional online store About This Book Take advantage of the latest features in Magento 2 to set up an e-commerce store that fits your business needs Packed with several advanced recipes, not just to manage your online store, but to extend and design it as well Written in a cookbook style, you can pick and choose your recipe to carry out your day- to- day Magento store tasks Who This Book Is For The book is for existing Magento users who want to gain further expertise and insights into managing, designing, and extending their online store in Magento to fit their business needs. Working knowledge of Magento and basic familiarity with programming is expected. What You Will Learn Set up a Magento 2 project on Apache or Nginx. Transfer your Magento 1 database to Magento 2 using the Magento 2 system tools. Boost the performance of Magento 2 by enabling different types of caching. Build a Magento 2 multi-store by creating a root catalog, subdirectories, and products. Create and manage pages, blocks, and front-end apps. Manage your Magento store by setting up the correct TAX rules. Design custom themes within the Magento 2 framework. Create basic and advanced extensions using Magento 2. In Detail Magento 2 is an open source e-commerce platform that has all the functionality to function from small to large online stores. It is preferred by developers and merchants due to its new architecture, which makes it possible to extend the functionalities with plugins, a lot of

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which are now created by the community. This merchant and developer guide is packed with recipes that cover all aspects of Magento 2. The recipes start with simple how-to's then delve into more advanced topics as the book progresses. We start with the basics of setting up a Magento 2 project on Apache or Nginx. Next, you will learn about basics including system tools and caching to get your Magento 2 system ready for the real work. We move on to simple tasks such as managing your store and catalog configuration. When you are familiar with this, we cover more complex features such as module and extension development. Then we will jump to the final part: advanced Magento 2 extensions. By the end of this book, you'll be competent with all the development phases of Magento 2 and its most common elements. Style and approach Step by step guide for real world tasks for Magento users to gain a more advanced insight on managing, extending and designing their e-commerce store to fit their business needs.