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Ubuntu 20.04 LTS Server Richard Petersen 2020-07-28 This book is designed as an Ubuntu 20.04 LTS Server administration and reference source, covering the Ubuntu servers and their support applications. Server tools are covered as well as the underlying configuration files and system implementations. The emphasis is on what administrators will need to know to perform key server support and management tasks. Coverage of the systemd service management system is integrated into the book. Topics covered include software management, systemd service management, systemd-networkd and Netplan network configuration, AppArmor security, OpenSSH, the Chrony time server, and Ubuntu cloud services. Key servers are examined, including Web, FTP, CUPS printing, NFS, and Samba Windows shares. Network support servers and applications covered include the Squid proxy server, the Domain Name System (BIND) server, DHCP, distributed network file systems, IPtables firewalls, and cloud computing.

Digital Forensics with Open Source Tools Cory Altheide 2011-03-29 Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems Debian 9 Stretch Basic Administration (UTeM Press) Wahidah Md Shah Debian is introduced in 1993 and one of the oldest Linux distribution to date. Debian serves as the foundation of many other Linux distribution among other the well-known Ubuntu, Linux Mint and Raspbian.

Ubuntu 11.04 Server Guide Ubuntu Documentation Project 2011-05 The official "Ubuntu 11.04 Server Guide" contains information on how to install and configure various server applications on your Ubuntu system to fit your needs.

ASP.NET Core 2 High Performance James Singleton 2017-10-11 Learn how to develop web applications that deploy cross-platform and are optimized for high performance using ASP.NET Core 2 About This Book Master high-level web app performance improvement techniques using ASP.NET Core 2.0 Find the right balance between premature optimization and inefficient code Design workflows that run asynchronously and are resilient to transient performance issues Who This Book Is For This book is aimed for readers who can build a web application and have some experience with ASP.NET or some other web application framework (such as Ruby on Rails or Django). They can be people who are happy learning details independently but who struggle to discover the topics that they should be researching. The reader should be interested in improving the performance of their web app and in learning about ASP.NET Core and modern C#. What You Will Learn Understand ASP.NET Core 2 and how it differs from its predecessor Address performance issues at the early stages of development Set up development environments on Windows, Mac, and Linux Measure, profile and find the most significant problems Identify the differences between development workstations and production infrastructures, and how these can exacerbate problems Boost the performance of your application but with an eye to how it affects complexity and maintenance Explore a few cutting-

edge techniques such as advanced hashing and custom transports In Detail The ASP.NET Core 2 framework is used to develop high-performance and cross-platform web applications. It is built on .NET Core 2 and includes significantly more framework APIs than version 1. This book addresses high-level performance improvement techniques. It starts by showing you how to locate and measure problems and then shows you how to solve some of the most common ones. Next, it shows you how to get started with ASP.NET Core 2 on Windows, Mac, Linux, and with Docker containers. The book illustrates what problems can occur as latency increases when deploying to a cloud infrastructure. It also shows you how to optimize C# code and choose the best data structures for the job. It covers new features in C# 6 and 7, along with parallel programming and distributed architectures. By the end of this book, you will be fixing latency issues and optimizing performance problems, but you will also know how this affects the complexity and maintenance of your application. Finally, we will explore a few highly advanced techniques for further optimization. Style and approach A step-by-step practical guide filled with real-world use cases and examples

Ubuntu 16.04 LTS Desktop: Applications and Administration Richard Petersen 2016-06-10
Ubuntu Hacks Jonathan Oxer 2006-10-20 Provides information on getting the most out of Ubuntu Linux, covering the installation, configuration, and customization of the operating system.

Ansible For Containers and Kubernetes By Examples Luca Berton Save time managing Containers, Kubernetes and OpenShift with Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common Containers, Kubernetes, OpenShift and System Administrator tasks. You are going to start with the installation of Ansible in RedHat Enterprise Linux, Ubuntu, and macOS using the most command package manager and archives. Each of the 10+ lessons summarizes a module: from the most important parameter to some demo of code and real-life usage. Each code is battle proved in the real life. Console interaction and verification are included in every video. You are going to save tons of time automating the container management automating with some lines of code and these are only some of the long lists included in the course. Simplify your system administrator journey with Docker, podman, Kubernetes and OpenShift tools. These are technologies very requested in the market nowadays. Are you ready to automate your day with Ansible?

Pro PHP Kevin McArthur 2008-05-29 Pro PHP presents experienced developers with a thorough guide to the language's key advanced features, focusing on both recent and emerging features and development trends. Advanced object-oriented features, documentation, debugging, software patterns, and the Standard PHP Library are just a few of the topics covered in extensive detail. Author and noted PHP expert Kevin McArthur also examines emerging practices and trends such as the MVC architecture as applied to PHP, with special emphasis placed upon the increasingly popular Zend Framework. The book also covers JSON, the SOAP extension, and advanced web services topics.

The SQL Server DBA's Guide to Docker Containers Edwin M Sarmiento 2020-05-29 Get introduced to the world of Docker containers from a SQL Server DBA's perspective. This book explains container technology and how it can improve the deployment of your SQL Server databases without infrastructure lock-in. You will be equipped with the right technical skills to guide stakeholders in your business as they adopt and adapt to new technologies to improve time-to-market and competitiveness. You will learn how to build a lab environment at home on which to build skills that transfer directly into your day job. This book teaches you how to install and configure Docker on both Windows Server and Linux operating systems. You will learn the most common Docker commands that you need to know as a DBA to deploy and manage SQL Server on containers. Support for SQL Server on Linux is new, and this book has your back with guidance on creating Docker images specifically for deployment to a Linux platform. Included is coverage of key Linux commands needed to manage SQL Server on that operating system. By the end of the book you will have learned how to create your own custom SQL Server container images with configuration settings that are specific to your organization, that are capable of being deployed to both Windows Server and Linux. What You Will Learn Create Docker containers for agile deployment of SQL Server Run multiple SQL Server instances on a single Linux machine Deploy custom images specific to your organization's needs Know the benefits and architecture of container technology Install and configure Docker on Windows Server and Linux Manage and persist SQL Server data in Docker containers Who This Book Is For Intermediate to senior SQL Server DBAs who are familiar with SQL Server on Windows and want to build their existing skills to deploy and manage SQL Server on Linux and through Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the Transact-SQL language.

Cyber Operations Mike O'Leary 2019-03-01 Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!. Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete

defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks. What You'll Learn Construct a testing laboratory to experiment with software and attack techniques Build realistic networks that include active directory, file servers, databases, web servers, and web applications such as WordPress and Joomla! Manage networks remotely with tools, including PowerShell, WMI, and WinRM Use offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the Ripper Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms Defend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and students)

Ansible by Examples Luca Berton 2022-01-31 Ansible is an Open Source IT automation tool. This book contains all of the obvious and not-so-obvious best practices of Ansible automation. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing. Automate your IT journey with Ansible automation technology. You are going to start with the installation of Ansible in Enterprise Linux, Community Linux, Windows, and macOS using the most command package manager and archives. Each of the 200+ lessons summarizes a module: from the most important parameter to some Ansible code and real-life usage. Each code is battle proved in the real life. Simplifying mundane activities like creating a text file, extracting and archiving, fetching a repository using HTTPS or SSH connections could be automated with some lines of code and these are only some of the long lists included in the course. There are some Ansible codes usable in all the Linux systems, some specific for RedHat-like, Debian-like, and Windows systems. The 20+ Ansible troubleshooting lesson teaches you how to read the error message, how to reproduce, and the process of troubleshooting and resolution. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9+ and Ansible Core 2.11+.

Ubuntu 20.04 LTS Desktop Richard Petersen 2020-06-25 This book covers the Ubuntu 20.04 LTS (Focal Fossa) release, focusing on applications and administrative tools. The emphasis here is on what users will face when using Ubuntu, covering topics like installation, applications, software management for Snap and APT, the Ubuntu desktops (GNOME, MATE, and KDE), shell commands, network connections, and system administration tasks. There are four parts: Getting Started, Applications, Desktops, and Administration. Part 1 focuses on getting started, covering Ubuntu information and resources, using the Ubuntu Live DVD/USB drive, installing and setting up Ubuntu, upgrading Ubuntu, basic use of the desktop interface, and connecting to wired and wireless networks. Repositories and their use are covered in detail, along with the new Snap system for managing Snap packages. Ubuntu Snap package management with Ubuntu Software, the snap command, the Snap Store are examined, as well as APT package management with Gnome Software, the Synaptic Package Manager, and the apt and apt-get commands. Part 2 keys in on office, multimedia, mail, Internet, and social media applications. Part 3 covers the Ubuntu, Kubuntu, Ubuntu MATE, Xubuntu, and Lubuntu desktops. as well as the BASH shell. The Ubuntu desktop, which uses GNOME, is examined in detail. Part 4 deals with administration topics, first discussing system tools like the GNOME system monitor, the Disk Usage Analyzer, Seahorse, and Disk Utility. Then a detailed chapter on Ubuntu system administration tools is presented, covering tasks such as managing users and file systems, Bluetooth setup, network folder sharing, backups, and printing. The network connections chapter covers a variety of network tasks, including manual configuration of wired and wireless connections, and firewalls.

Learning CFEngine 3 Diego Zamboni 2012 Discusses how CFEngine 3 can be used to automate computer networks and perform such low-level actions as user management, security, and software installation.

Ubuntu 8.10 Linux Bible William von Hagen 2009-06-03 Bring yourself up to date on everything you need to know about Ubuntu Linux The Ubuntu Linux Bible covers all of the latest developments in version 8.10 and 8.04, including tips for newcomers as well as expert guidance for seasoned system administrators. Learn about topics like the Gnome Desktop, the Bash shell, virtual machines, wireless networking, file sharing, and more. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Ubuntu 21.04 Server Richard Petersen 2021-06-10 This book is designed as an Ubuntu 21.04 Server administration and reference source, covering the Ubuntu servers and their support applications. Server tools are covered as well as the underlying configuration files and system implementations. The emphasis is on what administrators will need to know to perform key server support and management tasks. Coverage of the systemd service management system is integrated into the book. Topics covered include software management, systemd service management, AppArmor security, OpenSSH, the Chrony time server, and Ubuntu cloud services. Key servers are examined, including Web, FTP, CUPS printing, NFS, and Samba Windows shares. Network support servers and applications covered include the Squid proxy server, the Domain Name System (BIND) server, DHCP, distributed network file systems, IPtables firewalls, and cloud computing.

Mastering Ubuntu Server Jay LaCroix 2018-05-30 Get up-to-date with the finer points of Ubuntu Server using this

configured as a networked workstation, a DNS server, a mail server, a firewall, a gateway router, and many other things. These are all part of administration tasks, hence network administration is one of the main tasks of Linux system administration. By knowing how to configure system network interfaces in a reliable and optimal manner, Linux administrators can deploy and configure several network services including file, web, mail, and servers while working in large enterprise environments. Starting with a simple Linux router that passes traffic between two private networks, you will see how to enable NAT on the router in order to allow Internet access from the network, and will also enable DHCP on the network to ease configuration of client systems. You will then move on to configuring your own DNS server on your local network using bind9 and tying it into your DHCP server to allow automatic configuration of local hostnames. You will then future enable your network by setting up IPv6 via tunnel providers. Moving on, we'll configure Samba to centralize authentication for your network services; we will also configure Linux client to leverage it for authentication, and set up a RADIUS server that uses the directory server for authentication. Toward the end, you will have a network with a number of services running on it, and will implement monitoring in order to detect problems as they occur. Style and approach This book is packed with practical recipes and a task-based approach that will walk you through building, maintaining, and securing a computer network using Linux.

Ansible Tips and Tricks Luca Berton 2022-05-04 Learn the Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, could, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common System Administrator tasks. Each of the 10+ lessons summarizes a real-life scenario and the most important module description and the most important parameter to succeed in your journey. Moreover, each code is battle proved in the real life. Console interaction and verification are included in every video. A mundane activity like printing a text/variable during execution, Pause execution, How to Pass Variables to Ansible Playbook in the command line, breaking a string over multiple lines, Ansible ansible_hostname vs inventory_hostname, setting remote environment per task or play, executing a command on the Ansible localhost, three options to Safely Limit Ansible Playbooks Execution to a Single Machine, command vs shell modules, write a Variable to a File and these are only some of the long lists included in the course. There are some Ansible codes usable in all the Linux systems. Are you ready to automate your day with Ansible to the next level?

Computer hardware, Ubuntu Linux, Windows 10, Internet Introductions Lalit Mali 2017-03-07 This book will help its readers to know more about the basics of computer hardware and its peripheral devices, number system, operating system. This book also contains information about Windows 10 operating system and its interface, Linux introduction, installing linux, Ubuntu linux interface root/console & command line control and its structure, understating internet & its concept as well as tips about Microsoft office 2016, detail explanation about Microsoft office application menu & tab complete description.

Ubuntu 10.04 Lts Installation Guide Ubuntu Documentation Project 2010-05 The official "Ubuntu 10.04 LTS Installation Guide" contains installation instructions for the Ubuntu 10.04 LTS system (codename "Lucid Lynx").

Hands-On Server-Side Web Development with Swift Angus Yeung 2018-11-30 Take advantage of using the same programming language for both server and client-side with this hands-on book for building web applications with Swift. Key FeaturesBuild a full-stack iOS and web applications using Swift, Vapor, and Kitura FrameworkLeverage ORM abstraction drivers to make queries to SQL databaseDevelop your very own containerized microservices with Swift, Docker and KubernetesBook Description This book is about building professional web applications and web services using Swift 4.0 and leveraging two popular Swift web frameworks: Vapor 3.0 and Kitura 2.5. In the first part of this book, we'll focus on the creation of basic web applications from Vapor and Kitura boilerplate projects. As the web apps start out simple, more useful techniques, such as unit test development, debugging, logging, and the build and release process, will be introduced to readers. In the second part, we'll learn different aspects of web application development with server-side Swift, including setting up routes and controllers to process custom client requests, working with template engines such as Leaf and Stencil to create dynamic web content, beautifying the content with Bootstrap, managing user access with authentication framework, and leveraging the Object Relational Mapping (ORM) abstraction layer (Vapor's Fluent and Kitura's Kuery) to perform database operations. Finally, in the third part, we'll develop web services in Swift and build our API Gateway, microservices and database backend in a three-tier architecture design. Readers will learn how to design RESTful APIs, work with asynchronous processes, and leverage container technology such as Docker in deploying microservices to cloud hosting services such as Vapor Cloud and IBM Cloud. What you will learnBuild simple web apps using Vapor 3.0 and Kitura 2.5Test, debug, build, and release server-side Swift applicationsDesign routes and controllers for custom client requestsWork with server-side template enginesDeploy web apps to a host in the cloudEnhance web content with BootstrapManage user access using authentication frameworkDesign for API gatewayDevelop an iPhone app to work with web servicesDeploy your app as a microservice in a clusterDeploy Swift web services with a RESTful API designWho this book is for This book is about building professional web applications and web services using Swift and leveraging two popular Swift web frameworks: Vapor 3.0 and Kitura 2.5. We assume the readers to have some working knowledge of Swift programming language. The readers could be beginners of Swift programming, seasonal iOS or macOS developers, or software developers who want to work on practical Swift applications while

learning the language itself. By the end of the book, you would be able to successfully create your own web applications and web services by leveraging the powerful ecosystem of Swift.

Linux Bible 2010 Edition Christopher Negus 2010-06-03 The definitive guide to the basics of one of the most popular operating systems in the world Whether you're a first-time Linux user or you're migrating from another operating system, this book is an ideal introductory guide for getting comfortable with the building-block nature of Linux. Written by bestselling author Christopher Negus, this guide is packed with in-depth descriptions on the basics of Linux desktops, servers, and programming tools and gets you up to speed on all the new and exciting features of the newest version: Linux 2010. Negus walks you through transitioning from Windows or Mac and helps you find the Linux distribution that best meets your needs. You'll explore more than 18 Linux distributions, including the latest versions of Ubuntu, Fedora, Debian, OpenSUSE, Slackware, Knoppix, Gentoo, Mandriva, SLAX, and more. Plus, you'll discover how to set up secure, fully functioning Linux server systems and get up-to-date installation advice. Topics Covered: Getting off the Ground with Linux Running a Linux Desktop Learning System Administration Skills Setting Up Linux Servers Choosing and Installing Different Linux Distributions Programming in Linux Linux Bible 2010 Edition walks you through the details of the various Linux distributions and updates you on the latest networking, desktop, and server enhancements. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

The Debian Administrator's Handbook, Debian Wheezy from Discovery to Mastery Raphaël Hertzog 2014-06-18 Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. It covers all the topics that a competent Linux administrator should master, from the installation and the update of the system, up to the creation of packages and the compilation of the kernel, but also monitoring, backup and migration, without forgetting advanced topics like SELinux setup to secure services, automated installations, or virtualization with Xen, KVM or LXC. Learn more about the book on <http://debian-handbook.info>

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Ansible For Amazon Web Services AWS By Examples Luca Berton 2022-07-13 This course provides an introduction to the Ansible language. Ansible is a popular open source IT automation technology for scripting applications in a wide variety of domains. It is free, portable, powerful, and remarkably easy and fun to use. This course is a tool to learn the Ansible automation technology with some real-life examples. Learn the Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common IT Professional tasks to automate your AWS Infrastructure. Each of the lessons summarizes a specific use case for the Modern AWS Infrastructure. Each lesson is focused on a module from the most important parameter with some live demo of code and real-life usage. Each code is battle proved in the real life. Console interaction and verification are included in every video. How to configure Ansible to interact with AWS infrastructure - EC2, VPC, security groups, etc.. You could automate the creation, update, and gather information for EC2 machines, and many more use-cases using Ansible. A mundane activity like creating an AWS EC2 machine is the most used with Ansible For AWS. Each example is using the secure connection protocol to guarantee sensible data are encrypted and reserved. Maintain your AWS infrastructure network the most efficiently as possible with Ansible Automation, the simple human-readable automation technology. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9+ and Ansible Core 2.11+.

Ubuntu 20.04 Essentials Neil Smyth 2020-05-13 Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Ubuntu 20.04 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Canonical, Ltd. Ubuntu 20.04 Essentials is designed to provide detailed information on the installation, use and administration of the Ubuntu 20.04 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH),

Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

The Debian Administrator's Handbook, Debian Jessie from Discovery to Mastery Raphaël Hertzog

Ansible For Linux by Examples Luca Berton 2022-03-11 Ansible is an Open Source IT automation tool. This book contains all of the obvious and not-so-obvious best practices of Ansible automation. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing.

Automate your IT journey with Ansible automation technology. You are going to start with the installation of Ansible in Enterprise and Community Linux using the most command package manager and archives. Each of the 200+ lessons summarizes a module: from the most important parameter to some Ansible code and real-life usage. Each code is battle proved in the real life. Simplifying mundane activities like creating a text file, extracting and archiving, fetching a repository using HTTPS or SSH connections could be automated with some lines of code and these are only some of the long lists included in the course. There are some Ansible codes usable in all the Linux systems, some specific for RedHat-like, Debian-like, and Suse-like. The 20+ Ansible troubleshooting lesson teaches you how to read the error message, how to reproduce, and the process of troubleshooting and resolution. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9+ and Ansible Core 2.11+.

Advances in Conceptual Modeling Giancarlo Guizzardi 2019-10-26 This book constitutes the refereed proceedings of five workshops symposia, held at the 38th International Conference on Conceptual Modeling, ER 2019, in Salvador, Brazil, in November 2019. The 34 papers promote and disseminate research on theories of concepts underlying conceptual modeling, methods and tools for developing and communicating conceptual models, techniques for transforming conceptual models into effective implementations, and the impact of conceptual modeling techniques on databases, business strategies and information systems. The following workshops are included in this volume: Workshop on Conceptual Modeling, Ontologies and Metadata Management for FAIR Data (FAIR), 6th Workshop on Conceptual Modeling in Requirements Engineering and Business Analysis (MREBA), 2nd International Workshop on Empirical Methods in Conceptual Modeling (EmpER), 8th International Workshop on Modeling and Management of Big Data (MoBiD19), and 7th International Workshop on Ontologies and Conceptual Modelling (OntoCom).

Ubuntu 18.04 Essentials Neil Smyth 2020-04-30 Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Ubuntu 18.04 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Canonical, Ltd. Ubuntu 18.04 Essentials is designed to provide detailed information on the installation, use and administration of the Ubuntu 18.04 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

Ansible Linux Filesystem By Examples Luca Berton Ansible is an Open Source IT automation tool. This book contains all of the obvious and not-so-obvious best practices of Ansible automation. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing.

Automate your IT journey with Ansible automation technology. You are going to start with basic concepts and the installation of Ansible in Enterprise Linux and Community Linux using the most command package manager and archives. Each of the 40+ lessons summarizes a specific scenario about files and directories management: creating an empty file, creating a text file, assigning permission to users and groups, renaming files and directory, removing the files and directory, or copying between local and remote and vice-versa. Another useful administrator tool is to assign permission to files or directories as needed. Included extraction of a compressed zip file or tarball with the most common gzips and bzip2 UNIX formats. Moreover, that is a lesson about file download from a URL and verifying the genuinity with the checksum. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9+ and Ansible Core 2.11+.

Hands-on DevOps with Linux Alisson Machado de Menezes 2021-03-24 Manage Linux Servers on-premises and cloud with advanced DevOps techniques using Kubernetes KEY FEATURES ? Detailed coverage on architecture of Web Servers, Databases, and Cloud Servers. ? Practical touch on deploying your application and managing cloud infrastructure using Docker and Terraform. ? Simplified implementation of Infrastructure as Code with Vagrant. ?

Explore the use of different cloud services for better provisioning, scalability, and reliability of enterprise applications. DESCRIPTION Hands-on DevOps with Linux brings you advanced learnings on how to make the best use of Linux commands in managing the DevOps infrastructure to keep enterprise applications up-to-date. The book begins by introducing you to the Linux world with the most used commands by DevOps experts and teaches how to set up your own infrastructure in your environment. The book covers exclusive coverage on production

scenarios using Kubernetes and how the entire container orchestration is managed. Throughout the book, you will get accustomed to the most widely used techniques among DevOps Engineers in their routine. You will explore how infrastructure as code works, working with Vagrant, Docker and Terraform through which you can manage the entire cloud deployment of applications along with how to scale them on your own. WHAT YOU WILL LEARN ? Create Infrastructure as Code to replicate the configuration to your infrastructure. ? Learn best methods and techniques to build continuous delivery pipeline using Jenkins. ? Learn to Distribute and scale your applications using Kubernetes. ? Get insights by analyzing millions of server logs using Kibana and Logstash. WHO THIS BOOK IS FOR This book is best suited for DevOps Engineers and DevOps professionals who want to make best use of Linux commands in managing the DevOps infrastructure daily. It is a good handy guide for Linux administrators and system administrators too to get familiar with the use of Linux in Devops and advance their skillset in DevOps. TABLE OF CONTENTS 1. Getting started with Linux 2. Working with Bash 3. Setting up a service 4. Configuring a reverse proxy with Nginx 5. Deploying your application using Docker 6. Automating your Infrastructure as Code 7. Creating your infrastructure using cloud services 8. Working with Terraform 9. Working with Git 10. Continuous integration and Continuous Delivery using Jenkins 11. Deploying and scaling your application using Kubernetes 12. Logs with open source Tools

Ubuntu Linux Bible William von Hagen 2007-03-26 Everything you need to know—and then some! It's the fastest-growing, coolest Linux distribution out there, and now you can join the excitement with this information-packed guide. Want to edit graphics? Create a spreadsheet? Manage groups? Set up an NFS server? You'll learn it all and more with the expert guidance, tips, and techniques in this first-ever soup-to-nuts book on Ubuntu. From the basics for newcomers to enterprise management for system administrators, it's what you need to succeed with Ubuntu. Master the fundamentals for desktop and networks Send e-mail, share files, edit text, and print Download music, watch DVDs, and play games Use Ubuntu on laptops, go wireless, or synch it with your PDA Set up Web, mail, print, DNS, DHCP, and other servers Manage groups and secure your network What's on the CD-ROM? Test-drive Ubuntu on your computer without changing a thing using the bootable Ubuntu Desktop Live CD included with this book. If you decide to install it permanently, a simple, easy-to-use installer is provided. Also on the CD, you'll find: Popular open-source software for Microsoft(r) Windows(r), such as AbiWord, Firefox(r), GIMP, and more An easy-to-use application that simplifies installing these programs on your Microsoft Windows system System Requirements: Please see the "About the CD-ROM Appendix" for details and complete system requirements. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Power and Performance Jim Kukunas 2015-04-27 Power and Performance: Software Analysis and Optimization is a guide to solving performance problems in modern Linux systems. Power-efficient chips are no help if the software those chips run on is inefficient. Starting with the necessary architectural background as a foundation, the book demonstrates the proper usage of performance analysis tools in order to pinpoint the cause of performance problems, and includes best practices for handling common performance issues those tools identify. Provides expert perspective from a key member of Intel's optimization team on how processors and memory systems influence performance Presents ideas to improve architectures running mobile, desktop, or enterprise platforms Demonstrates best practices for designing experiments and benchmarking throughout the software lifecycle Explains the importance of profiling and measurement to determine the source of performance issues

Ansible For PostgreSQL by Examples Luca Berton 2022-06-10 Learn the Ansible automation technology with some real-life examples. Every successful IT department needs automation nowadays for bare metal servers, virtual machines, cloud, containers, and edge computing. Automate your IT journey with Ansible automation technology. I'm going to teach you example by example how to accomplish the most common Database Administrator tasks. Each of the lessons summarizes a module: from the most important parameter to some live demo of code and real-life usage. Each code is battle proved in the real life. Console interaction and verification are included in every lesson. Mundane activities like installing the database management system in Red Hat (Red Hat Enterprise Linux, CentOS, Amazon Linux, AlmaLinux, Rocky Linux, etc.) and Debian (Ubuntu, Scientific Linux) like systems, creating a database file, creating a user, granting the permission to a user to connect to the database, backup and restore a single database could be automated with some lines of code and these are only some of the long lists included in the course. There are some Ansible codes usable in all the Linux systems, some specific for RedHat-like, Debian-like systems. The Ansible troubleshooting lesson teaches you how to read the error message, how to reproduce it, and the process of troubleshooting and resolution. Are you ready to automate your day with Ansible? Examples in the book are tested with the latest version of Ansible 2.9+ and Ansible Core 2.11+.

Beginning Ubuntu for Windows and Mac Users Nathan Haines 2015-09-23 Beginning Ubuntu for Windows and Mac Users is your comprehensive guide to using Ubuntu. You already know how to use a computer running Windows or OS X, but learning a new operating system can feel daunting. If you've been afraid to try Ubuntu because you don't know where to start, this book will show you how to get the most out of Ubuntu for work, home, and play. You'll be introduced to a wide selection of software and settings that will make your computer ready to work for you. Ubuntu makes your computing life easy. Ubuntu's Software Updater keeps all of your software secure and up-to-date. Browsing the Internet becomes faster and safer. Creating documents and sharing with others is built right in. Enjoying your music and movie libraries helps you unwind. In addition to a tour of Ubuntu's modern and easy-to-use

interface, you'll also learn how to:

- Understand the advantages of Ubuntu and its variants—Kubuntu, Xubuntu, and more
- Install Ubuntu on its own or alongside your computer's existing operating system
- Search Ubuntu's catalog of thousands of applications—all ready to install with a single click
- Work with files and disks that were created with Windows and OS X
- Run simple, interesting tasks and games using the command line
- Customize Ubuntu in powerful ways and get work done with virtual machines

Ubuntu is the world's third most popular operating system and powers desktop and laptop computers, servers, private and public clouds, phones and tablets, and embedded devices. There's never been a better time to install Ubuntu and move to an open source way of life. Get started with [Beginning Ubuntu for Windows and Mac Users](#) today!