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Hands-On Enterprise Automation with Python

Asterisk: The Definitive Guide

Fedora 11 Installation Guide

Practical Ansible

Raspberry Pi and AVR Projects

Effective DevOps

Linux: Powerful Server Administration

Security Strategies in Linux Platforms and Applications

Puppet Best Practices

Raspberry Pi System Software Reference

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Continuous Delivery

Pro Linux System Administration

Cloud Computing and Services Science

Fedora 13 Installation Guide

Fedora 14 Installation Guide
Raspberry Pi Hacks
Fedora 12 Installation Guide
Exploring Raspberry Pi
HashiCorp Packer in Production
Pro Linux System Administration
RHCE Red Hat Certified Engineer Linux Study Guide (Exam RH302)
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JILLIAN ROBERSON

Hands-On Enterprise Automation with
Python Sams Publishing

With more than 60 practical and creative hacks, this book helps you turn Raspberry Pi into the centerpiece of some cool electronics projects. Want to create a controller for a camera or a robot? Set up Linux distributions for media centers or PBX phone systems? That's just the beginning of what you'll

find inside Raspberry Pi Hacks. If you're looking to build either a software or hardware project with more computing power than Arduino alone can provide, Raspberry Pi is just the ticket. And the hacks in this book will give you lots of great ideas. Use configuration hacks to get more out of your Pi Build your own web server or remote print server Take the Pi outdoors to monitor your garden or control holiday lights Connect with SETI or construct an awesome Halloween costume Hack the Pi's Linux OS to support more complex projects Decode

audio/video formats or make your own music player Achieve a low-weight payload for aerial photography Build a Pi computer cluster or a solar-powered lab
Asterisk: The Definitive Guide Fultus Corporation

A concise, fast-paced guide to orchestrating and deploying scalable services with Docker About This Book Explore the new features added to the core Docker Engine to make multi-container orchestration easy Leverage tools such as Docker Machine, Swarm, Compose, and third-party tools such as Kubernetes, Mesosphere, and CoreOS to orchestrate containers Use Docker Compose with Swarm and apply rolling updates for zero downtime deployments Who This Book Is For This book is aimed at Sysadmins and DevOps engineers

who know what Docker does and are now looking to manage multiple containers on multiple hosts using the orchestration feature. What You Will Learn Build scalable, reliable services with Docker See how to manage a service in Docker using Docker Swarm, Kubernetes, and Mesosphere Discover simpler orchestration tools such as CoreOS/Fleet and Rancher Cattle Understand cluster-wide logging, system monitoring, and troubleshooting Build, test, and deploy containers using Continuous Integration Deploy cluster hosts on cloud services and automate your infrastructure In Detail Docker orchestration is what you need when transitioning from deploying containers individually on a single host to deploying complex multi-container apps on many

machines. This book covers the new orchestration features of Docker 1.12 and helps you efficiently build, test, and deploy your application using Docker. You will be shown how to build multi-container applications using Docker Compose. You will also be introduced to the building blocks for multi-host Docker clusters such as registry, overlay networks, and shared storage using practical examples. This book gives an overview of core tools such as Docker Machine, Swarm, and Compose which will enhance your orchestration skills. You'll learn how to set up a swarm using the decentralized building block. Next, you'll be shown how to make the most out of the in-built orchestration feature of Docker engine and you'll use third-party tools such as Kubernetes,

Mesosphere, and CoreOS to orchestrate your existing process. Finally, you will learn to deploy cluster hosts on cloud services and automate your infrastructure. Style and approach This comprehensive guide will take you through the orchestration feature of Docker. Using practical examples, you will discover various tools that can be used to manage multiple containers with ease.

Fedora 11 Installation Guide Editions Eyrolles

“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 bloviate. 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.

Practical Ansible No Starch Press

As world activities become more integrated, the rate of data growth has been increasing exponentially. And as a result of this data explosion, current data management methods can become inadequate. People are using the term big data (sometimes referred to as Big Data) to describe this latest industry trend. IBM® is preparing the next generation of technology to meet these data management challenges. To

provide the capability of incorporating big data sources and analytics of these sources, IBM developed a stream-computing product that is based on the open source computing framework Apache Hadoop. Each product in the framework provides unique capabilities to the data management environment, and further enhances the value of your data warehouse investment. In this IBM Redbooks® publication, we describe the need for big data in an organization. We then introduce IBM InfoSphere® BigInsights™ and explain how it differs from standard Hadoop. BigInsights provides a packaged Hadoop distribution, a greatly simplified installation of Hadoop and corresponding open source tools for application development, data movement, and

cluster management. BigInsights also brings more options for data security, and as a component of the IBM big data platform, it provides potential integration points with the other components of the platform. A new chapter has been added to this edition. Chapter 11 describes IBM Platform Symphony®, which is a new scheduling product that works with IBM Insights, bringing low-latency scheduling and multi-tenancy to IBM InfoSphere BigInsights. The book is designed for clients, consultants, and other technical professionals.

Raspberry Pi and AVR Projects Packt Publishing Ltd

Après un premier tome dédié aux bases de l'administration système, ce deuxième tome de la série Linux Administration s'adresse aux

administrateurs souhaitant approfondir tous les aspects de la gestion d'un serveur Linux en entreprise : compilation du noyau, gestion des périphériques, gestion des espaces disque, sauvegarde, optimisation des performances et dépannage. Basée sur RedHat Enterprise Linux 6, CentOS 6 et Fedora 12, cette nouvelle édition met l'accent sur plusieurs techniques incluses récemment dans les distributions Linux : Ext4, SAN/iSCSI, Upstart, PXE, Grub 2, Bacula, Cgroup, Udev, LVM, création de clé USB bootable, etc. Très pragmatique dans son approche, l'auteur va à l'essentiel avec des fiches de cours synthétiques, illustrées de nombreux exemples de commandes et de scripts. Chaque module se termine par une série de travaux dirigés minutés pour se

mettre immédiatement en situation et maîtriser les tâches que doit assurer au quotidien un administrateur Linux.

Effective DevOps Packt Publishing Ltd If you maintain or plan to build Puppet infrastructure, this practical guide will take you a critical step further with best practices for managing the task successfully. Authors Chris Barbour and Jo Rhett present best-in-class design patterns for deploying Puppet environments and discuss the impact of each. The conceptual designs and implementation patterns in this book will help you create solutions that are easy to extend, maintain, and support. Essential for companies upgrading their Puppet deployments, this book teaches you powerful new features and implementation models that weren't

available in the older versions. DevOps engineers will learn how best to deploy Puppet with long-term maintenance and future growth in mind. Explore Puppet's design philosophy and data structures Get best practices for using Puppet's declarative language Examine Puppet resources in depth—the building blocks of state management Learn to model and describe business and site-specific logic in Puppet See best-in-class models for multitiered data management with Hiera Explore available options and community experience for node classification Utilize r10k to simplify and accelerate Puppet change management Review the cost benefits of creating your own extensions to Puppet Get detailed advice for extending Puppet in a maintainable manner

Linux: Powerful Server Administration
Pearson Education

The official "Fedora 13 Installation Guide" covers installation of Fedora, a Linux distribution built on free and open source software.

Security Strategies in Linux Platforms and Applications Fultus Corporation

"Incorporating real-world examples and exercises throughout, Security Strategies in Linux Platforms and Applications discusses every major aspect of security on a Linux system, including coverage of the latest Linux distributions and kernels. Written by industry experts, the text opens with a review of the risks, threats, and vulnerabilities associated with Linux as an operating system. Part 2 discusses

how to take advantage of the layers of security available to Linux - user and group options, filesystems, and security options for important services. The text concludes with a look at the use of both open source and proprietary tools when building a layered security strategy for Linux operating system environments"--
Puppet Best Practices Packt Publishing Ltd

Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. Pro Linux System Administration makes it easy for small- to medium-sized businesses to enter the world of zero-cost software running on

Linux and covers all the distros you might want to use, including Red Hat, Ubuntu, Debian, and CentOS. Pro Linux System Administration takes a layered, component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn: Understand Linux architecture Build, back up, and recover Linux servers Create basic networks and network services with Linux Build and

implement Linux infrastructure and services including mail, web, databases, and file and print Implement Linux security Resolve Linux performance and capacity planning issues Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

Raspberry Pi System Software Reference Springer

Ubuntu Unleashed is filled with unique and advanced information for everyone who wants to make the most of the Ubuntu Linux operating system. This new edition has been thoroughly revised and updated by a long-time Ubuntu

community leader to reflect the exciting new Ubuntu 11.10 (“Oneiric Ocelot”) and the forthcoming Ubuntu 12.04. Former Ubuntu Forum administrator Matthew Helmke covers all you need to know about Ubuntu 11.10/12.04 installation, configuration, productivity, multimedia, development, system administration, server operations, networking, virtualization, security, DevOps, and more—including intermediate-to-advanced techniques you won’t find in any other book. Helmke presents up-to-the-minute introductions to Ubuntu’s key productivity and Web development tools, programming languages, hardware support, and more. You’ll find brand-new coverage of the new Unity desktop, new NoSQL database support and Android mobile development tools, and many

other Ubuntu 11.10/12.04 innovations. Whether you’re new to Ubuntu or already a power user, you’ll turn to this book constantly: for new techniques, new solutions, and new ways to do even more with Ubuntu! Matthew Helmke served from 2006 to 2011 on the Ubuntu Forum Council, providing leadership and oversight of the Ubuntu Forums, and spent two years on the Ubuntu regional membership approval board for Europe, the Middle East, and Africa. He has written about Ubuntu for several magazines and websites, is a lead author of *The Official Ubuntu Book*. He works for The iPlant Collaborative, which is funded by the National Science Foundation and is building cyberinfrastructure for the biological sciences to support the growing use of massive amounts of data

and computationally intensive forms of research. Quickly install Ubuntu, configure it, and get your hardware running right Configure and customize the new Unity desktop (or alternatives such as GNOME) Get started with multimedia and productivity applications, including LibreOffice Manage Linux services, users, and software packages Administer and use Ubuntu from the command line Automate tasks and use shell scripting Provide secure remote access Manage kernels and modules Administer file, print, email, proxy, LDAP, and database services (both SQL and NoSQL) Use both Apache and alternative HTTP servers Support and use virtualization Use Ubuntu in cloud environments Learn the basics about popular programming

languages including Python, PHP, and Perl, and how to use Ubuntu to develop in them Learn how to get started developing Android mobile devices Ubuntu 11.10 on DVD DVD includes the full Ubuntu 11.10 distribution for Intel x86 computers as well as the complete LibreOffice office suite and hundreds of additional programs and utilities. Free Upgrade! Purchase this book anytime in 2012 and receive a free Ubuntu 12.04 Upgrade Kit by mail (U.S. or Canada only) after Ubuntu 12.04 is released. See inside back cover for details. *Implementing IBM InfoSphere BigInsights on IBM System x* McGraw Hill Professional The Second Edition of *Security Strategies in Linux Platforms and Applications* covers every major aspect of security on

a Linux system. Written by an industry expert, this book is divided into three natural parts to illustrate key concepts in the field. It opens with a discussion of the risks, threats, and vulnerabilities associated with Linux as an operating system using current examples and cases. Part 2 discusses how to take advantage of the layers of security available to Linux--user and group options, filesystems, and security options for important services, as well as the security modules associated with AppArmor and SELinux. The book closes with a look at the use of both open source and proprietary tools when building a layered security strategy for Linux operating system environments. Using real-world examples and exercises, this useful resource

incorporates hands-on activities to walk readers through the fundamentals of security strategies related to the Linux system.

Continuous Delivery Pearson Education Raspberry Pi is Linux, but it's a unique flavor of Linux, specifically for the ARM-based Pi. Raspberry Pi Software Reference guides you through the boot process, including options for tweaking HDMI, memory, and other boot options. You'll learn the details of run levels and creating new services, and how to use the custom command `vcgencmd` for doing things like reporting temperature, clock speeds, and voltage. And while there are cross-compilers available for some flavors of Linux, one of the most important things you'll get from Raspberry Pi Software Reference is how

to build your own Raspberry Pi cross-compiler on your Mac OSX, Linux, or Windows computer.

Pro Linux System Administration

"O'Reilly Media, Inc."

The official "Fedora 12 Installation Guide" covers installation of Fedora, a Linux distribution built on free and open source software.

Cloud Computing and Services Science
Fultus Corporation

The Best Fully Integrated Study System
Available With hundreds of practice questions and hands-on exercises, RHCE Red Hat Certified Engineer Linux Study Guide, Fifth Edition covers what you need to know--and shows you how to prepare--for this challenging exam. 100% complete coverage of all objectives for exam RH302 Exam

Readiness Checklist at the front of the book--you're ready for the exam when all objectives on the list are checked off
Inside the Exam sections in every chapter highlight key exam topics covered Real-world exercises modeled after hands-on exam scenarios Two complete lab-based exams simulate the format, tone, topics, and difficulty of the real exam Bonus content (available for download) includes installation screen review, basic instructions for using VMware and Xen as testbeds, and paper and pencil versions of the lab exams
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Fedora 13 Installation Guide Jones &
 Bartlett Learning
 Expand Raspberry Pi capabilities with
 fundamental engineering principles
 Exploring Raspberry Pi is the innovators
 guide to bringing Raspberry Pi to life.
 This book favors engineering principles
 over a 'recipe' approach to give you the
 skills you need to design and build your
 own projects. You'll understand the
 fundamental principles in a way that
 transfers to any type of electronics,

electronic modules, or external
 peripherals, using a "learning by doing"
 approach that caters to both beginners
 and experts. The book begins with basic
 Linux and programming skills, and helps
 you stock your inventory with common
 parts and supplies. Next, you'll learn how
 to make parts work together to achieve
 the goals of your project, no matter what
 type of components you use. The
 companion website provides a full
 repository that structures all of the code
 and scripts, along with links to video
 tutorials and supplementary content that
 takes you deeper into your project. The
 Raspberry Pi's most famous feature is its
 adaptability. It can be used for
 thousands of electronic applications, and
 using the Linux OS expands the
 functionality even more. This book helps

you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing, controlling, and communicating with almost any component Explore advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

Fedora 14 Installation Guide Packt Publishing Ltd

Learn how to write and run Ansible Playbooks, from the basics to launching complex multi-tier applications across public cloud platforms such as Amazon

Web Services (AWS) and Microsoft Azure Key Features Write roles to automate everything, from basic apps to the entire cloud infrastructure Leverage Ansible's module ecosystem to streamline tasks across cloud platforms, operating systems, and apps Adopt DevOps practices and integrate Ansible with CI/CD platforms to streamline automation workflows Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAre you tired of manually deploying and managing your infrastructure and looking for ways to streamline your deployments, introduce consistency and collaboration, and save time? If so, then Learn Ansible is for you. Written by a DevOps practitioner and system administrator with 30+ years of experience, this book will teach you how

to automate repetitive tasks and effortlessly manage several resources from a single code base. From installing Ansible and writing your first playbook to deploying multi-tier applications across different cloud platforms, this book will take you on an exciting learning journey. By learning the art of defining highly available cloud infrastructure using code, you'll find it easy to distribute configurations alongside your application. You'll explore Ansible Galaxy, learn about community-contributed Ansible roles, and discover how to create and share your own roles. Later, the book delves into the capabilities of Ansible AWX and integrating Ansible with your CI/CD pipelines, using Azure DevOps and GitHub Actions. With real-world

examples and hands-on tutorials, you'll build a solid foundation to tackle any automation project. By the end of this book, you'll be able to confidently implement Ansible in your environment and day-to-day workflows, taking your deployments to the next level. What you will learn Understand how to install and configure Ansible on Linux, macOS, and Windows Write Ansible playbooks to automate system configuration and deployment Deploy applications such as LAMP stacks and WordPress using Ansible Create reusable roles and use Ansible Galaxy for sharing Automate infrastructure deployments on cloud platforms such as AWS and Azure Execute your Ansible playbooks with GitHub Actions and Azure DevOps Scan playbooks for security issues and secure

systems using Ansible Centralize and manage Ansible deployments using Ansible AWX Who this book is for Learn Ansible is for system administrators, developers, and infrastructure engineers who want to implement infrastructure automation and configuration management using Ansible. The hands-on tutorials make this book ideal for both beginners as well as intermediate users looking to take their Ansible skills to the next level. Technology professionals working with public cloud platforms like AWS and Azure will also find valuable insights into automating deployments.

Raspberry Pi Hacks Packt Publishing Ltd

Expert Consolidation in Oracle Database 12c is your key to reducing data management costs and increasing data

center efficiency. Consolidation and cloud computing are converging trends sweeping the industry. The same technologies enabling cloud computing enable consolidation as well, leading to savings on all fronts from the amount of power used for servers to the amount of floor space consumed to the number of administrators needed to manage an installation. Yet the consolidation process can be a long and winding road. Success requires planning, and consideration to the impacts on supporting infrastructure. Expert Consolidation in Oracle Database 12c guides you through planning and implementing a consolidated Oracle Database installation using the many new features built into the latest release of Oracle's database management

system. You'll learn to identify candidates for consolidation and to recognize instances that are best left stand-alone. The book guides in working with clustered systems and ASM storage in the consolidated environment. Focus is given to Oracle Enterprise Manager 12c Cloud Control as a monitoring and management dashboard. Always the goal is to drive towards a cost-effective environment that is efficient both in technology and people. Focuses on the new consolidation features in Oracle Database 12c Helps you evaluate and correctly decide when to consolidate Leads to cost savings and improved data center efficiency

Fedora 12 Installation Guide Jones & Bartlett Publishers
Set up automated workflows to keep

systems and applications consistent globally, regardless of architecture, cloud, or container runtime Purchase of the print or Kindle book includes a free PDF eBook Key Features Automate building and modifying complex software images across multiple OSs and container engines Minimize cost by keeping your systems ready across multiple architectures, including ARM and future RISC-V processors Speed up your time to market by building and testing apps using upstream and future releases Book Description Creating machine images can be time-consuming and error-prone when done manually. HashiCorp Packer enables you to automate this process by defining the configuration in a simple, declarative syntax. This configuration is then used to

create machine images for multiple environments and cloud providers. The book begins by showing you how to create your first manifest while helping you understand the available components. You'll then configure the most common built-in builder options for Packer and use runtime provisioners to reconfigure a source image for desired tasks. You'll also learn how to control logging for troubleshooting errors in complex builds and explore monitoring options for multiple logs at once. As you advance, you'll build on your initial manifest for a local application that'll easily migrate to another builder or cloud. The chapters also help you get to grips with basic container image options in different formats while scaling large builds in production. Finally, you'll

develop a life cycle and retention policy for images, automate packer builds, and protect your production environment from nefarious plugins. By the end of this book, you'll be equipped to smoothen collaboration and reduce the risk of errors by creating machine images consistently and automatically based on your defined configuration. What you will learn Build and maintain consistent system images across multiple platforms Create machine images that can be used in multiple environments Write a spec for a local Packer virtual machine in JSON and HCL Build a container image with Packer in different formats Automate Packer with continuous delivery pipelines Discover how to customize Packer by writing plugins Who this book is for This book is for DevOps

engineers, Cloud engineers, and teams responsible for maintaining platform and application images for enterprise private, hybrid, or multi-cloud environments. Familiarity with operating systems and virtualization concepts, with or without using a cloud provider, is a prerequisite.

Exploring Raspberry Pi IBM Redbooks

Design a complete Voice over IP (VoIP) or traditional PBX system with Asterisk, even if you have only basic telecommunications knowledge. This bestselling guide makes it easy, with a detailed roadmap that shows you how to install and configure this open source software, whether you're upgrading your existing phone system or starting from scratch. Ideal for Linux administrators, developers, and power users, this

updated edition shows you how to write a basic dialplan step-by-step, and brings you up to speed on the features in Asterisk 11, the latest long-term support release from Digium. You'll quickly gain working knowledge to build a simple yet inclusive system. Integrate Asterisk with analog, VoIP, and digital telephony systems Build an interactive dialplan, using best practices for more advanced features Delve into voicemail options, such as storing messages in a database Connect to external services including Google Talk, XMPP, and calendars Incorporate Asterisk features and functions into a relational database to facilitate information sharing Learn how to use Asterisk's security, call routing, and faxing features Monitor and control your system with the Asterisk Manager

Interface (AMI) Plan for expansion by learning tools for building distributed systems

HashiCorp Packer in Production Apress

As an incredibly cheap, credit-card sized computer, the Raspberry Pi is breaking down barriers by encouraging people of all ages to experiment with code and build new systems and objects; and this book provides readers with inspiring and

insightful examples to explore and build upon. Written for intermediate to seasoned Raspberry Pi users, this book explores four projects from around the world, explained by their makers. These projects cover five major categories in the digital maker space: music, light, games, home automation, and the Internet of Things.

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