



# Pro Linux System Administration

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*Second Edition*  
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# Pro Linux System Administration

**Lingsheng Yao**



## **Pro Linux System Administration:**

*Pro Linux System Administration* Dennis Matotek, James Turnbull, PETER LIEVERDINK, 2017-04-05 This book 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 If you want to implement a SOHO or SMB Linux infrastructure Pro Linux System Administration clearly demonstrates everything you need You ll find this book also provides a solid framework to move forward and expand your business and associated IT capabilities and you ll benefit from the expertise and experienced guidance of the authors 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 All about Linux architecture How to build back up and recover Linux servers How to create basic networks and network services with Linux How to build and implementing Linux infrastructure and services including mail web databases and file and print How to implement Linux security 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

**Pro Linux System Administration** James Turnbull, Dennis Matotek, Peter Lieverdink, 2009-06-24 We can all be Linux experts provided we invest the time in learning the craft of Linux administration 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 Authors and systems infrastructure experts James Turnbull Peter Lieverdink and Dennis Matotek take a layered component based approach to open source business systems while training system administrators as the builders of business infrastructure If you want to implement a SOHO or SMB Linux infrastructure Pro Linux System Administration clearly demonstrates everything you need You ll find this book also provides a solid framework to move forward and expand your business and associated IT capabilities and you ll benefit from the expertise and experienced guidance of the authors Pro Linux System Administration covers An introduction to using Linux and free and open source software to cheaply and efficiently manage your business A layered model that allows your infrastructure to grow with your business Easy and simple to understand instructions including configurations examples and extensive real world hints and tips

**Pro Linux System Administration** Dennis Matotek, James Turnbull, Peter Lieverdink, 2017-03-14 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 [Pro Linux System Administration](#) James Turnbull,Dennis Matotek,Peter Lieverdink,2009-09-01 We can all be Linux experts provided we invest the time in learning the craft of Linux administration 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 Authors and systems infrastructure experts James Turnbull Peter Lieverdink and Dennis Matotek take a layered component based approach to open source business systems while training system administrators as the builders of business infrastructure If you want to implement a SOHO or SMB Linux infrastructure Pro Linux System Administration clearly demonstrates everything you need You ll find this book also provides a solid framework to move forward and expand your business and associated IT capabilities and you ll benefit from the expertise and experienced guidance of the authors Pro Linux System Administration covers An introduction to using Linux and free and open source software to cheaply and efficiently manage your business A layered model that allows your infrastructure to grow with your business Easy and simple to understand instructions including configurations examples and extensive real world hints and tips [Pro Python System Administration](#) Rytis Sileika,2010-09-08 As time goes on system administrators are presented with increasingly complicated challenges In the early days a team of engineers might have had to look after one or two systems These days one engineer can administer hundreds or thousands of systems System administrators are gradually replacing their tools with more advanced and flexible ones One of the choices is Python Structurally Python is a modern high level language with a very clean syntax Python comes with many built in libraries that can make automation tasks easier It also has extensive set of third party libraries and a very active development community This flexibility makes Python a good choice for a wide variety of tasks from prototyping science applications to system maintenance and administration jobs This book explains and shows how to apply Python scripting in practice Unlike the majority of the Python books it will show you how to approach and resolve real world issues

that most system administrators will come across in their careers In this book you will find several projects in the categories of network administration web server administration and monitoring and database management In each project we will define the problem design the solution and go through the more interesting implementation steps Each project is accompanied with the source code of a fully working prototype which you ll be able to use immediately or adapt to your requirements and environment

**The Complete Guide to Linux System Administration** Nicholas Wells,2005 Prepares users for the Red Hat Certified Technician RHCT Certification Linux Professional Institute LPI Certification and SAIR GNU Linux Certified Administrator LCA Certification

**Linux System Administration** Tom Adelstein,Bill Lubanovic,2007-03-27 This guide provides a solid background for Linux desktop users who want to move beyond the basics of Linux and for experienced system administrators who are looking to gain more advanced skills

**Mastering Python Scripting for System Administrators** Ganesh Sanjiv Naik,2019-01-30 Leverage the features and libraries of Python to administrate your environment efficiently

**Key Features**Learn how to solve problems of system administrators and automate routine activitiesLearn to handle regular expressions network administration Building GUI web scraping and database administration including data analytics

**Book Description** Python has evolved over time and extended its features in relation to every possible IT operation Python is simple to learn yet has powerful libraries that can be used to build powerful Python scripts for solving real world problems and automating administrators routine activities The objective of this book is to walk through a series of projects that will teach readers Python scripting with each project This book will initially cover Python installation and quickly revise basic to advanced programming fundamentals The book will then focus on the development process as a whole from setup to planning to building different tools It will include IT administrators routine activities text processing regular expressions file archiving and encryption network administration socket programming email handling the remote controlling of devices using telnet ssh and protocols such as SNMP DHCP building graphical user interface working with websites Apache log file processing SOAP and REST APIs communication and web scraping and database administration MySQL and similar database data administration data analytics and reporting By the end of this book you will be able to use the latest features of Python and be able to build powerful tools that will solve challenging real world tasks What you will learn

Understand how to install Python and debug Python scriptsUnderstand and write scripts for automating testing and routine administrative activitiesUnderstand how to write scripts for text processing encryption decryption and archivingHandle files such as pdf excel csv and txt files and generate reportsWrite scripts for remote network administration including handling emailsBuild interactive tools using a graphical user interfaceHandle Apache log files SOAP and REST APIs communicationAutomate database administration and perform statistical analysisWho this book is for This book would be ideal for users with some basic understanding of Python programming and who are interested in scaling their programming skills to command line scripting and system administration Prior knowledge of Python would be necessary

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Administration Guide Vishal Rai, 2022-06-08 Linux administration based on hosted virtualization KEY FEATURES Designed for absolute beginners and early Linux users with the most up to date knowledge Contains troubleshooting tips and best practices for running a Linux system on your own Supplemental knowledge and insights in server security threat management and virtualization DESCRIPTION Expert Linux Administration Guide is for the readers who are interested in developing the skills and abilities essential to operate as a professional Linux system administrator This is the only book that explains everything about Linux practically through examples simplified visuals solution tips and expert led best practices This book begins with an introduction to Linux fundamentals and swiftly progresses to the day to day tasks of a Linux administrator You practically learn how to plan your network by installing Linux and gaining a firm grasp of its file system and system configuration This book covers all the Linux server settings including DNS mail servers Squid proxy servers and backup recovery In addition the book contains troubleshooting hints and ready to use solutions for server configuration load balancing firewall configuration network security concerns and virtualization The book does not end here as it discusses some of the advanced administrator s responsibilities Topics such as monitoring system performance process controls user provisioning file and database recovery and backup and software package upgrades are also covered By the end of this book you ll be able to practise and implement the latest system administration techniques in a Linux environment considerably more effectively WHAT YOU WILL LEARN Learn to install and configure Linux servers quickly Manage configurations license software and patch security flaws Obtain the highest level of support for RAID configurations Learn how to set up database servers backups and system recovery Expert advice on firewalls web servers disc utilization and network resources WHO THIS BOOK IS FOR This book is intended for System Managers System Administrators Network Administrators Server Administrators System Engineers and others interested in becoming professional Linux Administrators No prerequisite knowledge is required as the book covers everything clearly and precisely TABLE OF CONTENTS 1 Linux Fundamental 2 Files Directories User Management 3 File Compression and Archival 4 Performing Search 5 Vi Editor 6 Linux Installation 7 System Initialization 8 Overview of Network commands 9 Firewall Setup 10A Partition System in CentOS7 8 10B LVM and ISCSI CentOS7 8 11 YUM Server 12 Telnet 13 Domain Name System 14 Dynamic Host Control Protocol 15 Unified Threat Management UTM 16 Squid Web Proxy 17 Apache Web Server 18 Linux as a Router 19 NIS Server 20 NFS Server 21 File Transfer Protocol 22 Samba Configuration 23 Mail Server Configuration 24 Linux Hardening 25 Load Balancer 26 Setup Network Printer Services 27 System Backup and Restore Process 28 Linux Virtualization KVM 29 Introduction to Open Source tools 30 Troubleshooting Network Issues *Linux System Administration Handbook* Mark F. Komarinski, Cary Collett, 1998 Technical and practical explanations are given of every major system administration task including security Internet setup hardware configuration and file serving The CD ROM contains OpenLinux from Caldera the most popular business version of Linux **The Packer Book** James Turnbull, 2017-07-31 Introductory book designed for SysAdmins

Operations staff Developers and DevOps who are interested in building images using the open source tool Packer

*The Terraform Book* James Turnbull,2016-12-31 A hands on introductory book about managing infrastructure with Terraform Start small and then build on what you learn to scale up to complex infrastructure Written for both developers and sysadmins Focuses on how to build infrastructure and applications with Terraform The book contains Chapter 1 An Introduction to Terraform Chapter 2 Installing Terraform Chapter 3 Building our first application Chapter 4 Provisioning and Terraform Chapter 5 Collaborating with Terraform Chapter 6 Building a multi environment architecture Chapter 7 Infrastructure testing Updated for Terraform 0 12

**The Logstash Book** James Turnbull,2013-03-02 Updated for Logstash and ELK 5 0 0 A book designed for SysAdmins Operations staff Developers and DevOps who are interested in deploying a log management solution using the open source Elasticsearch Logstash Kibana ELK stack In this book we will walk you through installing deploying managing and extending Logstash We re going to do that by introducing you to Example com where you re going to start a new job as one of its SysAdmins The first project you ll be in charge of is developing its new log management solution We ll teach you how to Install and deploy Logstash Ship events from a Logstash Shipper to a central Logstash server Filter incoming events using a variety of techniques Add structured logging to your applications Output those events to a selection of useful destinations Use Logstash s awesome web interface Kibana Scale out your Logstash implementation as your environment grows Quickly and easily extend Logstash to deliver additional functionality that you might need By the end of the book you should have a functional and effective log management solution that you can deploy into your own environment Updated for Logstash and ELK 5 0 0

**InfoWorld** ,1995-08-07 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

**The Docker Book** James Turnbull,2014-07-14 Updated for Docker Community Edition v18 09 Docker book designed for SysAdmins SREs Operations staff Developers and DevOps who are interested in deploying the open source container service Docker In this book we ll walk you through installing deploying managing and extending Docker We re going to do that by first introducing you to the basics of Docker and its components Then we ll start to use Docker to build containers and services to perform a variety of tasks We re going to take you through the development lifecycle from testing to production and see where Docker fits in and how it can make your life easier We ll make use of Docker to build test environments for new projects demonstrate how to integrate Docker with continuous integration workflow and then how to build application services and platforms Finally we ll show you how to use Docker s API and how to extend Docker yourself We ll teach you how to Install Docker Take your first steps with a Docker container Build Docker images Manage and share Docker images Run and manage more complex Docker containers Deploy Docker containers as part of your testing pipeline Build multi container applications and environments Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery Explore the Docker API Getting Help and Extending

Docker *Linux System Administration* Dee-Ann LeBlanc,2000-08 Provides immediate solutions to the most common Linux installation and configuration tasks It expertly explains the complexities of upgrading an existing Linux installation and rebuilding from source It covers the use of the most common major Linux servers and utilities including Apache Sendmail majordomo DHCP Samba ISC BIND and Coda Covers kernel configuration networking system security Internet services LAN services file systems and much more Author Dee Ann LeBlanc **Caldera OpenLinux System Administration Unleashed** Thomas Schenk,2000 BASIC APPROACH PLEASE PROVIDE COURSE INFORMATION **Linux System Administration** Vicki Stanfield,Roderick W. Smith,2001 This in depth book gets administrators up to speed on Linux more quickly than any competitive book **Linux System Administration** Olaf Kirch,Lars Wirzenius,1999 Schindler has gathered and organized the system administration related papers from the copyrighted free Web based Linux Documentation Project LDP With material written by the people who created and are maintaining and evolving Linux the book enables broader distribution and use of LDP material through bookstores and educational institutions and also provides an index table of contents and explanatory notes **Linux System Administration** Marcel Gagné,2002 A definitive guide to Linux system administration is written by a noted authority on the subject Designed for system administrators at every level this title includes cheat sheets quick reference guides and numerous examples starting with simpler ideas and working toward more complex topics

## **Pro Linux System Administration** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Pro Linux System Administration**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Pro Linux System Administration Introduction**

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