



Quick answers to common problems

Linux Networking Cookbook

Over 40 recipes to help you set up and configure Linux networks

Gregory Boyce

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PUBLISHING community experience distilled

Linux Networking Cookbook

Marco Schwartz



Linux Networking Cookbook:

Linux Networking Cookbook Carla Schroder, 2007-11-26 This soup to nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator whether you're new to the job or have years of experience With *Linux Networking Cookbook* you'll dive straight into the gnarly hands-on work of building and maintaining a computer network Running a network doesn't mean you have all the answers Networking is a complex subject with reams of reference material that's difficult to keep straight much less remember If you want a book that lays out the steps for specific tasks that clearly explains the commands and configurations and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs this is the book for you You will find recipes for Building a gateway firewall and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building secure VPNs with OpenVPN and a Linux PPTP VPN server Single sign-on with Samba for mixed Linux/Windows LANs Centralized network directory with OpenLDAP Network monitoring with Nagios or MRTG Getting acquainted with IPv6 Setting up hands-free networks installations of new systems Linux system administration via serial console And a lot more Each recipe includes a clear hands-on solution with tested code plus a discussion on why it works When you need to solve a network problem without delay and don't have the time or patience to comb through reference books or the Web for answers *Linux Networking Cookbook* gives you exactly what you need **Linux networking cookbook** Carla Schroder, 2008

Linux Networking Cookbook Gregory Boyce, 2016-06-28 Over 40 recipes to help you set up and configure Linux networks About This Book Move beyond the basics of how a Linux machine works and gain a better understanding of Linux networks and their configuration Impress your peers by setting up and configuring a Linux server and its various network elements like a pro This is a hands-on solution guide to building, maintaining, and securing a network using Linux Who This Book Is For This book is targeted at Linux systems administrators who have a good basic understanding and some prior experience of how a Linux machine operates but want to better understand how various network services function how to set them up and how to secure them You should be familiar with how to set up a Linux server and how to install additional software on them What You Will Learn Route an IPv6 netblock to your local network Modify your named instance to support setting hostnames for your IPv6 addresses Use SSH for remote console access Configure NGINX with TLS Secure XMPP with TLS Leverage iptables6 to firewall your IPv6 traffic Configure Samba as an Active Directory-compatible directory service In Detail Linux can be 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

Linux Networking Cookbook Zhong wen ban ,2013

Linux Networking Cookbook Aaron Brookes,2017-08-09 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 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

Linux Networking Cookbook 中国·,2009 Linux Linux Asterisk VoIP

Linux Cookbook Carla Schroder,2021-08-12 This handy cookbook teaches new to intermediate Linux users the essential skills necessary to manage a Linux system using both graphical and command line tools Whether you run Linux in embedded desktop server or cloud or virtual environments the fundamental skills are the same This book aims to get you up and running quickly with copy paste examples Carla Schroder provides recipes that cover specific problems with discussions that explain how each recipe works as well as references for additional study You ll learn how to Use systemd the new comprehensive service manager Build simple or complex firewalls with firewalld Set up secure network connections for Linux systems and mobile devices Rescue nonbooting systems Reset lost passwords on Linux and Windows Use dnsmasq to simplify managing your LAN name services Manage users and groups and control access to files Probe your computer hardware and monitor hardware health Manage the GRUB bootloader and multiboot Linux and Windows Keep accurate time across your network with the newest tools Build an internet router firewall on Raspberry Pi Manage filesystems and partitioning

Docker Networking Cookbook Jon Langemak,2016-11-29 60 practical recipes that help you gain expertise with Docker networking and understand the underlying constructs that make it all work About This Book Enhance your Docker networking skills and protect your organization using advanced networking functions Learn how to use

third party tools to extend Docker networking This practical and recipe based book demonstrates the different ways in which you can network containers leveraging the Docker engine Who This Book Is For The book is for system administrators as well as developers who are well versed with the concepts of Docker and have basic knowledge of Docker networking You should also have sound knowledge of networking in general What You Will Learn Configure Linux networking primitives used by Docker networking Build and deploy user defined Docker networks Examine the different options for resolving and linking containers Implement custom networks for Docker to consume Discover third party networking plugins such as Weave and Flannel Work through solutions to secure Docker containers and networks Observe methodologies for troubleshooting container networks Explore advanced and experimental Docker networking features In Detail Networking functionality in Docker has changed considerably since its first release evolving to offer a rich set of built in networking features as well as an extensible plugin model allowing for a wide variety of networking functionality This book explores Docker networking capabilities from end to end Begin by examining the building blocks used by Docker to implement fundamental containing networking before learning how to consume built in networking constructs as well as custom networks you create on your own Next explore common third party networking plugins including detailed information on how these plugins inter operate with the Docker engine Consider available options for securing container networks as well as a process for troubleshooting container connectivity Finally examine advanced Docker networking functions and their relevant use cases tying together everything you need to succeed with your own projects Style and approach This practical recipe based book will take readers to next level of Docker networking It covers relevant use cases and the advanced features of Docker

[Linux Cookbook](#)
Carla Schroder,2021-09-30 This handy cookbook teaches new to intermediate Linux users the essential skills necessary to manage a home or small business network The recipes in this book are updated to cover new technologies such as systemd firewalld modern package managers the Raspberry Pi and connecting Android and iOS devices to your network You ll learn how to install maintain and troubleshoot a Linux system add and remove software manage filesystems run backups and restores manage name services securely connect to remote systems partition storage devices build a LAN gateway on Raspberry Pi and more all the fundamental tasks you ll need to run and maintain a Linux system Carla Schroder author of over a thousand Linux how tos for various publications as well as the Networking Cookbook and the Book of Audacity teaches the solid Linux foundations you need to build and run your network How do you multiboot Or troubleshoot software hardware and network issues Each recipe addresses a specific problem and includes a discussion that explains the solution and provides insight into how it works Learn how the Linux ecosystem is structured Enable smartphones and tablets to safely connect to your LAN Manage fundamental subsystems and essential tasks Secure remote access and build a firewall internet gateway Manage users and groups and filesystems and partitions Rescue nonbooting systems Manage name services and the Dynamic Host Configuration Protocol DHCP

Intel Galileo Networking Cookbook Marco Schwartz,2015-08-26 Over 50

recipes that will help you use the Intel Galileo board to build exciting network connected projects About This Book Create networking applications using the Intel Galileo board Control your web based projects in real time from anywhere in the world Connect to the Temboo web service to interact with a huge range of APIs Who This Book Is For If you have already worked on ARM boards like Arduino but now want to learn Intel Galileo then this book is for you Knowledge of C programming language is required What You Will Learn Set up your Galileo board for the Internet of Things Connect external sensors to the Intel Galileo Create and run a web server on the Galileo board Control hardware devices from the Galileo Host web based applications on the Intel Galileo Monitor data from the cloud using the Galileo Build a complete home automation hub using the Galileo board In Detail Arduino is an electronic prototyping platform used by millions of people around the world Intel Galileo is fully Arduino compatible hence it combines the high performance of Intel with the simplicity of Arduino Software Development Environment This makes it the ideal platform to build exciting projects especially in the field of web based connected applications and the Internet of Things The book features several recipes all based on the Intel Galileo board and that exploit the powerful features of the board Each chapter explores a given field using the Galileo board The book is mainly divided in three parts The first part is all about learning the basics of the Intel Galileo board but it uses some of the powerful features of the board such as connecting external sensors and complex hardware devices compared with more basic Arduino boards Then the book dives into the topics related to networking and the Internet of Things You will learn how to run a web server on the board and log data using a cloud based service Finally the book ends with a chapter that aims to build a complete home automation hub using the Galileo board This chapter uses everything that was learned in the book to make a home automation system using the Galileo board and Arduino Style and approach This book contains exciting recipes that will help you create projects using the Intel Galileo platform to build systems in various domains like local networking applications the Internet of Things and home automation Each recipe is explained in a step by step fashion always starting with the assembly of the hardware followed by basics tests of all hardware components At the end an exciting project is built using the knowledge acquired in the rest of the book *OpenStack Networking Cookbook* Sriram

Subramanian, Chandan Dutta Chowdhury, 2015-10-23 Harness the power of OpenStack Networking for public and private clouds using 90 hands on recipes About This Book Build and manage virtual switching routing and firewall based networks in OpenStack using Neutron Develop plugins and drivers for Neutron to enhance the built in networking capabilities Monitor and automate OpenStack networks using tools like Ceilometer and Heat Who This Book Is For This book is aimed at network and system administrators who want to deploy and manage OpenStack based cloud and IT infrastructure If you have basic knowledge of OpenStack and virtualization this book will help you leverage the rich functionality of OpenStack Networking in your cloud deployments What You Will Learn Operate OpenStack Networking for public and private clouds Configure advanced routing services for your workloads Secure data traffic using firewall as a service capabilities of OpenStack

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AWS Networking Cookbook
Satyajit Das,Jhalak Modi,2017-08-24 Over 50 recipes covering all you need to know about AWS networking About This Book Master AWS networking concepts with AWS Networking Cookbook Design and implement highly available connectivity and multi regioned AWS solutions A recipe based guide that will eliminate the complications of AWS networking A guide to automate networking services and features Who This Book Is For This book targets administrators network engineers and solution architects who are looking at optimizing their cloud platform s connectivity Some basic understanding of AWS would be beneficial What You Will Learn Create basic network in AWS Create production grade network in AWS Create global scale network in AWS Security and Compliance with AWS Network Troubleshooting best practices and limitations of AWS network Pricing model of AWS network components Route 53 and Cloudfront concepts and routing policies VPC Automation using Ansible and CloudFormation In Detail This book starts with practical recipes on the fundamentals of cloud networking and gradually moves on to configuring networks and implementing infrastructure automation This book then supplies in depth recipes on networking components like Network Interface Internet Gateways DNS Elastic IP addresses and VPN CloudHub Later this book also delves into designing implementing and optimizing static and dynamic routing architectures multi region solutions and highly available connectivity for your enterprise Finally this book will teach you to troubleshoot your VPC s network increasing your VPC s efficiency By the end of this book you will have advanced knowledge of AWS networking concepts and technologies and will have mastered implementing infrastructure automation and optimizing your VPC Style and approach A set of exciting recipes on using AWS Networking services more effectively

Docker Networking Cookbook

Jon Langemak, 2016-11-28 60 practical recipes that help you gain expertise with Docker networking and understand the underlying constructs that make it all work

About This Book Enhance your Docker networking skills and protect your organization using advanced networking functions Learn how to use third party tools to extend Docker networking This practical and recipe based book demonstrates the different ways in which you can network containers leveraging the Docker engine

Who This Book Is For The book is for system administrators as well as developers who are well versed with the concepts of Docker and have basic knowledge of Docker networking You should also have sound knowledge of networking in general

What You Will Learn Configure Linux networking primitives used by Docker networking Build and deploy user defined Docker networks Examine the different options for resolving and linking containers Implement custom networks for Docker to consume Discover third party networking plugins such as Weave and Flannel Work through solutions to secure Docker containers and networks Observe methodologies for troubleshooting container networks Explore advanced and experimental Docker networking features

In Detail Networking functionality in Docker has changed considerably since its first release evolving to offer a rich set of built in networking features as well as an extensible plugin model allowing for a wide variety of networking functionality This book explores Docker networking capabilities from end to end Begin by examining the building blocks used by Docker to implement fundamental containing networking before learning how to consume built in networking constructs as well as custom networks you create on your own Next explore common third party networking plugins including detailed information on how these plugins inter operate with the Docker engine Consider available options for securing container networks as well as a process for troubleshooting container connectivity Finally examine advanced Docker networking functions and their relevant use cases tying together everything you need to succeed with your own projects

Style and approach This practical recipe based book will take readers to next level of Docker networking It covers relevant use cases and the advanced features of Docker

Azure Networking Cookbook Mustafa Toroman, 2020-12-17 Find out how you can leverage virtual machines and load balancers to facilitate secure and efficient networking

Key Features Discover the latest networking features and additions in Microsoft Azure with this updated guide Upgrade your cloud networking skills by learning how to plan implement configure and secure your infrastructure network Provide a fault tolerant environment for your apps using Azure networking services

Book Description Azure's networking services enable organizations to manage their networks effectively With the Azure Networking Cookbook you'll see how Azure paves the way for an enterprise to achieve reliable performance and secure connectivity This updated second edition will take you through the latest networking features in Azure The book starts with an introduction to Azure networking covering basics such as creating Azure virtual networks designing address spaces and creating subnets You'll create and manage network security groups application security groups and IP addresses in Azure using easy to follow recipes As you progress through the book you'll explore various aspects such as DNS and routing load balancers Traffic Manager and site to site point to site and VNet

to VNet connections This cookbook covers all the functions crucial to understanding cloud networking practices and being able to plan implement and secure your network infrastructure with Azure You ll not only upscale your current environment but also get well versed with monitoring diagnosing and ensuring secure connectivity The book will help you grasp best practices as you learn how to create a robust environment By the end of this Azure cookbook you ll have gained hands on experience developing cost effective solutions that can facilitate efficient connectivity in your organization What you will learnGet to grips with building Azure networking servicesUnderstand how to create and work on hybrid connectionsConfigure and manage Azure networking servicesExplore ways to design high availability network solutions in AzureDiscover how to monitor and troubleshoot Azure network resourcesWork with different methods to connect local networks to Azure virtual networksWho this book is for This cookbook is for cloud architects cloud solution providers and anyone who deals with networking on Azure A basic understanding of Azure will help you to make the most of this book

Raspberry Pi Networking Cookbook - Second Edition Rick Golden,2015-12-22 [Linux](#) Syed Mansoor

Sarwar,Robert M Koretsky,2018-10-03 Chosen by BookAuthority as one of BookAuthority s Best Linux Mint Books of All Time Linux The Textbook Second Edition provides comprehensive coverage of the contemporary use of the Linux operating system for every level of student or practitioner from beginners to advanced users The text clearly illustrates system specific commands and features using Debian family Debian Ubuntu and Linux Mint and RHEL family CentOS and stresses universal commands and features that are critical to all Linux distributions The second edition of the book includes extensive updates and new chapters on system administration for desktop stand alone PCs and server class computers API for system programming including thread programming with pthreads virtualization methodologies and an extensive tutorial on systemd service management Brand new online content on the CRC Press website includes an instructor s workbook test bank and In Chapter exercise solutions as well as full downloadable chapters on Python Version 3 5 programming ZFS TC shell programming advanced system programming and more An author hosted GitHub website also features updates further references and errata Features New or updated coverage of file system sorting regular expressions directory and file searching file compression and encryption shell scripting system programming client server based network programming thread programming with pthreads and system administration Extensive in text pedagogy including chapter objectives student projects and basic and advanced student exercises for every chapter Expansive electronic downloads offer advanced content on Python ZFS TC shell scripting advanced system programming internetworking with Linux TCP IP and many more topics all featured on the CRC Press website Downloadable test bank workbook and solutions available for instructors on the CRC Press website Author maintained GitHub repository provides other resources such as live links to further references updates and errata [Linux Cookbook](#) Carla Schroder,2004-11-29 This unique and valuable collection of tips tools and scripts provides clear concise hands on solutions that can be applied to the challenges facing anyone running a network of

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Mastering Modern Linux Paul S. Wang, 2018-06-14 Praise for the First Edition This outstanding book gives the reader robust concepts and implementable knowledge of this environment Graphical user interface GUI-based users and developers do not get short shrift despite the command-line interface's CLI full-power treatment Every programmer should read the introduction's Unix/Linux philosophy section This authoritative and exceptionally well-constructed book has my highest recommendation It will repay careful and recursive study Computing Reviews August 2011 Mastering Modern Linux Second Edition retains much of the good material from the previous edition with extensive updates and new topics added The book provides a comprehensive and up-to-date guide to Linux concepts usage and programming The text helps the reader master Linux with a well-selected set of topics and encourages hands-on practice The first part of the textbook covers interactive use of Linux via the Graphical User Interface GUI and the Command-Line Interface CLI including comprehensive treatment of the Gnome desktop and the Bash Shell Using different apps commands and filters building pipelines and matching patterns with regular expressions are major focuses Next comes Bash scripting file system structure organization and usage The following chapters present networking the Internet and the Web data encryption basic system admin as well as Web hosting The Linux Apache MySQL MariaDB PHP LAMP Web hosting combination is also presented in depth In the last part of the book attention is turned to C-level programming Topics covered include the C compiler preprocessor debugger I/O file manipulation process control inter-process communication and networking The book includes many examples and complete programs ready to download and run A summary and exercises of varying degrees of difficulty can be found at the end of each chapter A companion website

<http://mml.sofpower.com> provides appendices information updates an example code package and other resources for instructors as well as students

Raspberry Pi Networking Cookbook Richard Golden, Rick Golden, 2013 Written in an accessible yet practical manner the Raspberry Pi Networking Cookbook is the perfect companion guide for the ARM GNU Linux box From the moment you get your hands on your Raspberry Pi you can start to build your understanding with our specially selected collection of recipes This book is for anybody who wants to learn how they can utilize the Raspberry Pi to its full potential without having to immediately dive into programming It s full of step by step instructions and detailed descriptions in language that is appropriate for computer enthusiasts and experts alike

System Design for Telecommunication Gateways Alexander Bachmutsky, 2011-06-20 System Design for Telecommunication Gateways provides a thorough review of designing telecommunication network equipment based on the latest hardware designs and software methods available on the market Focusing on high end efficient designs that challenge all aspects of the system architecture this book helps readers to understand a broader view of the system design analyze all its most critical components and select the parts that best fit a particular application In many cases new technology trends potential future developments system flexibility and capability extensions are outlined in preparation for the longevity typical for products in the industry Key features Combines software and hardware aspects of the system design Defines components and services supported by open source and commercial basic and extended software platforms including operating systems middleware security routing management layer and more Focuses on disruptive technologies Provides guidelines for developing software architectures based on multi threaded multi process multi instance multi core multi chip multi blade and multi chassis designs Covers a number of advanced high speed interconnect and fabric interface technologies and their commercial implementations Presents different system form factors from compact pizza box styles to medium and large bladed systems including IBM BladeCenter ATCA and microTCA based chassis Describes different mezzanine cards such as PMC PrPMC XMC AMC and others

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