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Linux System Administration - Tom Adelstein 2007-03-27

A guide geared toward seasoned Linux and Unix administrators offers practical knowledge for managing a range of Linux systems and servers, covering such topics as installing servers, setting up e-mail systems, and creating shell scripts.

Cluster Computing - Heiko Bauke 2006-03-30

Das Buch ist eine praktische Einführung in das Hochleistungsrechnen auf Linux-Clustern. In vier Teilen (Grundlagen, Technik, Programmierung, Praxis) wird ausführlich erklärt, wie man einen Haufen (Cluster) preiswerter Standard-PCs in einen Parallelcomputer verwandelt und diesen dann zur Lösung rechenintensiver Probleme einsetzt. Insbesondere enthält das Buch eine fundierte Einführung in MPI, dem grundlegenden Programmiermodell für Cluster-Computer. Dabei werden anhand konkreter Beispiele die wichtigsten Paradigmen paralleler Programmierung präsentiert. Vorgestellt werden außerdem Entwicklungswerkzeuge, die Fehlersuche in parallelen Programmen und nützliche Bibliotheken.

Mastering Linux Shell Scripting, - Mokhtar Ebrahim 2018-04-19

Master the complexities of Bash shell scripting and unlock the power of shell for your enterprise Key Features Identify high-level steps such as verifying user input Using the command line and conditional statements in creating/executing simple shell scripts Create and edit dynamic shell scripts to manage complex and repetitive tasks Leverage the command-line to bypass GUI and automate common tasks Book Description In this book, you'll discover everything you need to know to master shell scripting and make informed choices about the elements you employ. Grab your favorite editor and start writing your best Bash scripts step by step. Get to grips with the fundamentals of creating and running a script in normal mode, and in debug mode. Learn about various conditional statements' code snippets, and realize the power of repetition and loops in your shell script. You will also learn to write complex shell scripts. This book will also deep dive into file system administration, directories, and system administration like networking, process management, user authentications, and package installation and regular expressions. Towards the end of the book, you will learn how to use Python as a BASH Scripting alternative. By the end of this book, you will know shell scripts at the snap of your fingers and will be able to automate and communicate with your system with keyboard expressions. What you will learn Make, execute, and debug your first Bash script Create interactive scripts that prompt for user input Foster menu structures for operators with little command-line experience Develop scripts that dynamically edit web configuration files to produce a new virtual host Write scripts that use AWK to search and reports on log files Draft effective scripts using functions as building blocks, reducing maintenance and build time Make informed choices by comparing different script languages such as Python with BASH Who this book is for If you are a Linux administrator or a system administrator and are interested in automating tasks in your daily lives, saving time and effort, this book is for you. Basic shell scripting and command-line experience will be required. Familiarity with the tasks you need to automate will be helpful.

[The Linux Kernel Module Programming Guide](#) - Peter Jay Salzman 2009-01-05

Linux Kernel Module Programming Guide is for people who want to write kernel modules. It takes a hands-on approach starting with writing a small "hello, world" program, and quickly moves from there. Far from a boring text on programming, Linux Kernel Module Programming Guide has a lively style that entertains

while it educates. An excellent guide for anyone wishing to get started on kernel module programming. *** Money raised from the sale of this book supports the development of free software and documentation.

Beauty 2002 - Bernardo Adeva 2003

PySpark Cookbook - Denny Lee 2018-06-29

Combine the power of Apache Spark and Python to build effective big data applications Key Features Perform effective data processing, machine learning, and analytics using PySpark Overcome challenges in developing and deploying Spark solutions using Python Explore recipes for efficiently combining Python and Apache Spark to process data Book Description Apache Spark is an open source framework for efficient cluster computing with a strong interface for data parallelism and fault tolerance. The PySpark Cookbook presents effective and time-saving recipes for leveraging the power of Python and putting it to use in the Spark ecosystem. You'll start by learning the Apache Spark architecture and how to set up a Python environment for Spark. You'll then get familiar with the modules available in PySpark and start using them effortlessly. In addition to this, you'll discover how to abstract data with RDDs and DataFrames, and understand the streaming capabilities of PySpark. You'll then move on to using ML and MLlib in order to solve any problems related to the machine learning capabilities of PySpark and use GraphFrames to solve graph-processing problems. Finally, you will explore how to deploy your applications to the cloud using the spark-submit command. By the end of this book, you will be able to use the Python API for Apache Spark to solve any problems associated with building data-intensive applications. What you will learn Configure a local instance of PySpark in a virtual environment Install and configure Jupyter in local and multi-node environments Create DataFrames from JSON and a dictionary using pyspark.sql Explore regression and clustering models available in the ML module Use DataFrames to transform data used for modeling Connect to PubNub and perform aggregations on streams Who this book is for The PySpark Cookbook is for you if you are a Python developer looking for hands-on recipes for using the Apache Spark 2.x ecosystem in the best possible way. A thorough understanding of Python (and some familiarity with Spark) will help you get the best out of the book.

Linux Advanced Routing and Traffic Control HOWTO - Gregory Maxwell 2019-11-06

Summary This classic howto was written in 2002, but it is still a must-read howto for any Linux networking professionals today. Many practical examples are included in the book. It is a very hands-on approach to iproute2, traffic shaping, policy routing and a bit of netfilter. This is a book you should have on your bookshelf. Table of Contents Dedication Introduction Introduction to iproute2 Rules-routing policy database GRE and other tunnels IPv6 tunneling with Cisco and/or 6bone IPsec:secure IP over the internet Multicast routing Queueing Disciplines for Bandwidth Management Load sharing over multiple interfaces Netfilter & iproute - marking packets Advanced filters for (re-)classifying packets Kernel network parameters Advanced & less common queueing disciplines Cookbook Building bridges, and pseudo-bridges with Proxy ARP Dynamic routing - OSPF and BGP Other possibilities Further reading Acknowledgements

Proceedings of the 17th Annual International Symposium on High Performance Computing Systems and Applications and the OSCAR Symposium - National Research Council Canada 2003 The 17th annual International Symposium on High Performance Systems and Applications (HPCS 2003) and the first OSCAR

Symposium were held in Sherbrooke, Quebec Canada, May 11-14, 2003. The proceedings cover various areas of High Performance Computing, from specific scientific applications to computer architecture. OSCAR is an Open Source clustering software suite for building, maintaining, and using high performance clusters.

Computational Science — ICCS 2004 - Marian Bubak
2004-05-26

The International Conference on Computational Science (ICCS 2004) held in Kraków, Poland, June 6-9, 2004, was a follow-up to the highly successful ICCS 2003 held at two locations, in Melbourne, Australia and St. Petersburg, Russia; ICCS 2002 in Amsterdam, The Netherlands; and ICCS 2001 in San Francisco, USA. As computational science is still evolving in its quest for subjects of investigation and efficient methods, ICCS 2004 was devised as a forum for scientists from mathematics and computer science, as the basic computing disciplines and application areas, interested in advanced computational methods for physics, chemistry, life sciences, engineering, arts and humanities, as well as computer system vendors and software developers. The main objective of this conference was to discuss problems and solutions in all areas, to identify new issues, to shape future directions of research, and to help users apply various advanced computational techniques. The event harvested recent developments in computational grids and next generation computing systems, tools, advanced numerical methods, data-driven systems, and novel application fields, such as complex systems, finance, econophysics and population evolution.

The Linux Enterprise Cluster - Karl Kopper 2005

The Linux Enterprise Cluster explains how to take a number of inexpensive computers with limited resources, place them on a normal computer network, and install free software so that the computers act together like one powerful server. This makes it possible to build a very inexpensive and reliable business system for a small business or a large corporation. The book includes information on how to build a high-availability server pair using the Heartbeat package, how to use the Linux Virtual Server load balancing software, how to configure a reliable printing system in a Linux cluster environment, and how to build a job scheduling system in Linux with no single point of failure. The book also includes information on high availability techniques that can be used with or without a cluster, making it helpful for System Administrators even if they are not building a cluster. Anyone interested in deploying Linux in an environment where low cost computer reliability is important will find this book useful. The CD-ROM includes the Linux kernel, ldirectord software, the Mon monitoring package, the Ganglia package, OpenSSH, rsync, SystemImager, Heartbeat, and all the figures and illustrations used in the book.

High Performance Computing - Rio Yokota 2018-06-04

This book constitutes the refereed proceedings of the 33rd International Conference, ISC High Performance 2018, held in Frankfurt, Germany, in June 2018. The 20 revised full papers presented in this book were carefully reviewed and selected from 81 submissions. The papers cover the following topics: Resource Management and Energy Efficiency; Performance Analysis and Tools; Exascale Networks; Parallel Algorithms.

Beauty ... - 2003

Writing Fast Programs - John S. Riley 2006

"Writing Fast Programs" provides the basic elements of code optimization and provides strategies for reducing bottlenecks in practical simulation and numerical modeling code. The target audience is scientists and engineers and students in these fields. One pre-publication reviewer called this a much-needed intermediate text to bridge the gap between existing introductory and more advanced programming books aimed at scientists. "Writing Fast Programs" does not teach basic programming; some programming proficiency is assumed, along with familiarity with the basic programming terminology. Code examples are presented in C, but BASIC (as a convenient pseudo-language) examples are provided for those not familiar with C. In general, the strategies presented are not language specific and should therefore benefit a wide programming audience. For example, similar techniques have been discussed for Java.

Embedded Linux System Design and Development - P. Raghavan
2005-12-21

Based upon the authors' experience in designing and deploying an embedded Linux system with a variety of applications, Embedded Linux System Design and Development contains a full embedded Linux system development roadmap for systems architects and software programmers. Explaining the issues that arise out of the use of Linux in embedded systems, the book facilitates movement to embedded Linux from traditional real-time operating systems, and describes the system design model containing embedded Linux. This book delivers practical solutions for writing, debugging, and profiling applications and drivers in embedded Linux, and for understanding Linux BSP architecture. It enables you to understand: various drivers such as serial, I2C and USB gadgets; uClinux architecture and its programming model; and the embedded Linux graphics subsystem. The text also promotes learning of methods to reduce system boot time, optimize memory and storage, and find memory leaks and corruption in applications. This volume benefits IT managers in planning to choose an embedded Linux distribution and in creating a roadmap for OS transition. It also describes the application of the Linux licensing model in commercial products.
Linux Journal - 2004

Linux For Dummies - Richard Blum 2009-07-17

One of the fastest ways to learn Linux is with this perennial favorite. Eight previous top-selling editions of Linux For Dummies can't be wrong. If you've been wanting to migrate to Linux, this book is the best way to get there. Written in easy-to-follow, everyday terms, Linux For Dummies 9th Edition gets you started by concentrating on two distributions of Linux that beginners love: the Ubuntu LiveCD distribution and the gOS Linux distribution, which comes pre-installed on Everex computers. The book also covers the full Fedora distribution. Linux is an open-source operating system and a low-cost or free alternative to Microsoft Windows; of numerous distributions of Linux, this book covers Ubuntu Linux, Fedora Core Linux, and gOS Linux, and includes them on the DVD. Install new open source software via Synaptic or RPM package managers Use free software to browse the Web, listen to music, read e-mail, edit photos, and even run Windows in a virtualized environment Get acquainted with the Linux command line If you want to get a solid foundation in Linux, this popular, accessible book is for you. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

CentOS 7 Server Deployment Cookbook - Timothy Boronczyk
2016-10-06

Deploy and manage today's essential services on an enterprise-class, open operating system About This Book Configure and manage Linux servers in varying scenarios and for a range of business requirements Explore the up-to-date features of CentOS using real-world scenarios See practical and extensive recipes to deploy and manage CentOS Who This Book Is For This book is for Linux professionals with basic Unix/Linux functionality experience, perhaps even having set up a server before, who want to advance their knowledge in administering various services. What You Will Learn See how to deploy CentOS easily and painlessly, even in multi-server environments Configure various methods of remote access to the server so you don't always have to be in the data center Make changes to the default configuration of many services to harden them and increase the security of the system Learn to manage DNS, emails and web servers Protect yourself from threats by monitoring and logging network intrusion and system intrusion attempts, rootkits, and viruses Take advantage of today's powerful hardware by running multiple systems using virtualization In Detail CentOS is derived from Red Hat Enterprise Linux (RHEL) sources and is widely used as a Linux server. This book will help you to better configure and manage Linux servers in varying scenarios and business requirements. Starting with installing CentOS, this book will walk you through the networking aspects of CentOS. You will then learn how to manage users and their permissions, software installs, disks, filesystems, and so on. You'll then see how to secure connection to remotely access a desktop and work with databases. Toward the end, you will find out how to manage DNS,

e-mails, web servers, and more. You will also learn to detect threats by monitoring network intrusion. Finally, the book will cover virtualization techniques that will help you make the most of CentOS. Style and approach This easy-to-read cookbook is filled with practical recipes. Hands-on, task-based exercises will present you with real-world solutions to deploy and manage CentOS in varying business scenarios.

Advanced Bash Scripting Guide - Mendel Cooper

Professional Red Hat Enterprise Linux 3 - Kapil Sharma
2005-03-11

What is this book about? Professional Red Hat Enterprise Linux 3 is a complete professional guide to setting up, configuring, and deploying Red Hat Enterprise Linux in the corporate production environment. The book focuses on Enterprise Server and Advanced Server features, including the key areas of high availability with the Red Hat Cluster Suite, Red Hat Network Control Center, and Red Hat Enterprise applications such as the Content Management System and portal server. Other key unique features include kernel tuning for various performance profiles; advanced Apache configuration; Tux installation/maintenance; building high-performance FTP servers; building high-performance mail servers (which means replacing Sendmail); Mailing list management; how to efficiently add, remove, or modify 100 users at the same time; and a discussion of disk quota management and monitoring. What does this book cover? The key features of the book include the following: How to install and setup RHEL 3 How to deploy RHEL 3 in production environment How to manage an RHEL system using Perl and shell scripting Advanced administration tools How to use Red Hat network service Details on installation and setup of security tools Ability to use and deploy High Availability solutions provided with RHEL 3 Performance tuning How to use monitoring tools Ability to use RHEL to provide scalable infrastructure solutions.

Linux 2010 - Michael Kofler 2010

Introduction to Linux (Second Edition) - Machtelt Garrels
2007

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you with the knowledge you need.

Understanding the Linux Virtual Memory Manager - Mel Gorman 2004

This is an expert guide to the 2.6 Linux Kernel's most important component: the Virtual Memory Manager.

Linux Assembly HOWTO - Konstantin Boldyshev 2019-11-09
Summary This classic howto (updated at 2013) will teach you how to program in assembly language using FREE programming tools. The book is focusing on development for or from the Linux Operating System on IA-32 (i386) platform. Table of Contents
Introduction Do you need assembly? Assemblers
Metaprogramming Calling conventions Quick start Resources
Frequently Asked Questions

Introduction to Linux (Third Edition) - Machtelt Garrels 2010-05

Whether you're just starting out with Linux or looking to hone your existing skills, this book will provide you with the knowledge you need. For new users, it is an exploration tour and getting started guide, with exercises at the end of each chapter.

Advanced trainees can consider it a desktop reference, a collection of the base knowledge needed to tackle system and network administration. To help you work more effectively with Linux, this book contains hundreds of real life examples derived from the author's experience as a Linux system and network administrator, trainer and consultant. These examples will help you to get a better understanding of the Linux system and feel encouraged to try out things on your own.

Linux Dictionary - Binh Nguyen

This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half yearly updates are being envisaged. Please note that

if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at

<http://computerdictionary.tsf.org.za/> Searchable databases exist at locations such as:

<http://www.swpearl.com/eng/scripts/dictionary/> (SWP) Sun Wah-PearL Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong. <http://www.geona.com/dictionary?b=Geona>, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites.

<http://www.linuxdig.com/documents/dictionary.php>
LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a RFC distribution site, linux news site and a locally written technology news site (with bad grammer :)) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world.

LinuxDig.Com contains about 20,000 documents and this number is growing everyday!

<http://linux.about.com/library/glossary/blglossary.htm> Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new About.com, you'll find other content that is relevant to your interests. If you're looking for "How To" advice on planning to re-finish your deck, we'll also show you the tools you need to get the job done. If you've been to About before, we'll show you the latest updates, so you don't see the same thing twice. No matter where you are on About.com, or how you got here, you'll always find content that is relevant to your needs. Should you wish to possess your own localised searchable version please make use of the available "dict", <http://www.dict.org/> version at the Linux Documentation Project home page, <http://www.tldp.org/> The author has decided to leave it up to readers to determine how to install and run it on their specific systems. An alternative form of the dictionary is available at:

<http://elibrary.fultus.com/covers/technical/linux/guides/Linux-Dictionary/cover.html> Fultus Corporation helps writers and companies to publish, promote, market, and sell books and eBooks. Fultus combines traditional self-publishing practices with modern technology to produce paperback and hardcover print-on-demand (POD) books and electronic books (eBooks). Fultus publishes works (fiction, non-fiction, science fiction, mystery, ...) by both published and unpublished authors. We enable you to self-publish easily and cost-effectively, creating your book as a print-ready paperback or hardcover POD book or as an electronic book (eBook) in multiple eBook's formats. You retain all rights to your work. We provide distribution to bookstores worldwide. And all at a fraction of the cost of traditional publishing. We also offer corporate publishing solutions that enable businesses to produce and deliver manuals and documentation more efficiently and economically. Our use of electronic delivery and print-on-demand technologies reduces printed inventory and saves time. Please inform the author as to whether you would like to create a database or an alternative form of the dictionary so that he can include you in this list. Also note that the author considers

breaches of copyright to be extremely serious. He will pursue all claims to the fullest extent of the law.

Linux Network Administrator's Guide - Olaf Kirch 2000

This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration).

High Performance Linux Clusters with OSCAR, Rocks, OpenMosix, and MPI - Joseph Sloan 2005

The author teaches at Wofford College.

Novell Cluster Services for Linux and NetWare - Rob Bastiaansen 2006-05-09

Need to configure or manage Novell Cluster Services on NetWare, Linux or a mixed environment? Pick up a copy of the official reference guide, Novell Cluster Services for Linux and NetWare. This book blends in-depth information with practical, real world examples to cover cluster services configuration strategies, backup requirements, cluster services management, and upgrading tactics. You'll gain invaluable insight from authors Rob Bastiaansen and Sander van Vugt, two Novell Certified Instructors with day-to-day experience consulting on the topics covered in this book. Master installing and managing Novell Cluster Services with the tutorial not available from anyone else, Novell Cluster Services for Linux and NetWare.

Beginning Red Hat Linux 9 - Sandip Bhattacharya 2003-07-09

What is this book about? Red Hat Linux 9 is a powerful, flexible open source operating system. Its popularity is growing, both in home use and in corporate environments of all sizes. Its user interface makes it every bit as accessible as other operating systems, and its open source pedigree opens the doors to a mind-blowing amount of free software. This book guides you through that difficult time that comes just after you've installed a new operating system, by giving you the confidence to open your wings and fly with it. We'll take you through the installation, we'll get you working, and by the end of the book you'll have a well-configured, stable, secure operating system and a world of possibilities. What does this book cover? In this book, you will learn how to Install Red Hat Linux 9 using the included 2 CD-ROM distribution from Red Hat Use Red Hat Linux 9 to connect to networks, printers, and the Internet Get working — using Office applications, Web browsers, multimedia applications, and so on Get the most from Linux — by understanding Linux's powerful file system and command line interfaces Set up and configure a Web server, a mail server, a file server, and various other types of servers Secure your machine against unauthorized use — both from the Internet and from internal threats Modify your machine to suit the way you work — installing software to create a tailored working environment Who is this book for? This book is for you if you're using (or planning to use) the Red Hat Linux operating system for the first time. It offers the simple, plain-speaking guidance you need as you begin to explore the vast potential of open source software. The book assumes that you're familiar with using Microsoft Windows, and aims to help you make the jump from Windows to Linux by introducing it in those terms. No previous knowledge of Linux is assumed.

Computational Science and Its Applications -- ICCSA 2012 - Beniamino Murgante 2012-06-16

The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPAA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - econometrics and multidimensional evaluation in the urban environment (EMEUE); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensing and actuation for cyber physical systems (MSA4CPS); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in computational sciences (SPCS); soft computing and data engineering (SCDE).

The topics of the fully refereed papers are structured according to the four major conference themes: 7333 - computational methods, algorithms and scientific application; 7334 - geometric modelling, graphics and visualization; 7335 - information systems and technologies; 7336 - high performance computing and networks.

Linux 2011 - Michael Kofler 2011

Building Clustered Linux Systems - Robert W. Lucke 2005

Until now, building and managing Linux clusters has required more intimate and specialized knowledge than most IT organizations possess. This book dramatically lowers the learning curve, bringing together all the hands-on knowledge and step-by-step techniques needed to get the job done.

Linux in a Nutshell - Ellen Siever 2005-07-27

Contains an introduction to the operating system with detailed documentation on commands, utilities, programs, system configuration, and networking.

Linux Kernel in a Nutshell - Greg Kroah-Hartman 2006-12-14

Written by a leading developer and maintainer of the Linux kernel, Linux Kernel in a Nutshell is a comprehensive overview of kernel configuration and building, a critical task for Linux users and administrators. No distribution can provide a Linux kernel that meets all users' needs. Computers big and small have special requirements that require reconfiguring and rebuilding the kernel. Whether you are trying to get sound, wireless support, and power management working on a laptop or incorporating enterprise features such as logical volume management on a large server, you can benefit from the insights in this book. Linux Kernel in a Nutshell covers the entire range of kernel tasks, starting with downloading the source and making sure that the kernel is in sync with the versions of the tools you need. In addition to configuration and installation steps, the book offers reference material and discussions of related topics such as control of kernel options at runtime. A key benefit of the book is a chapter on determining exactly what drivers are needed for your hardware. Also included are recipes that list what you need to do to accomplish a wide range of popular tasks.

A Guide to the IBM Clustered Network File System - Ira Chavis 2012-08-03

The Clustered Network File System (CNFS) is a capability based on IBM® General Parallel File System (GPFS™) running on Linux® which, when combined with System x® servers or BladeCenter® Servers, IBM TotalStorage® Disk Systems, and Storage Area Networks (SAN) components, provides a scalable file services environment. This capability enables customers to run a General Parallel File System (GPFS) data-serving cluster in which some or all of the nodes actively export the file system using NFS. This IBM Redpaper™ publication shows how Cluster NFS file services are delivered and supported today through the configurable order process of the IBM Intelligent Cluster. The audience for this paper includes executive and consultant decision makers and technical administrators who want to know how to implement this solution.

Debian GNU/Linux - Peter H. Ganten 2007-07-28

Das Buch behandelt die Grundlagen von Linux sowie die Einrichtung, Konfiguration und Administration vernetzter PCs unter Debian GNU/Linux. Diese Linux-Distribution zeichnet sich durch hervorragende Werkzeuge zur Pflege des Systems sowie eine deutliche Trennung zwischen freier und nicht-freier Software aus. Debian GNU/Linux gehört zu den sichersten und leistungsfähigsten Linux-Distributionen. Die Einrichtung von Debian GNU/Linux ist in den letzten Jahren einfacher und damit das System für weite Kreise zugänglich geworden. Zunächst führt Sie das Buch in die grundlegenden Ideen freier Software, in Linux allgemein und Debian GNU/Linux speziell ein. Dann werden Planung, Einrichtung und Anpassung des Systems auf Arbeitsplatzrechnern und Servern erläutert. Der dritte Teil des Buches geht auf Fragen des laufenden Betriebs, die Aktualisierung, die wichtigsten Dienste in einem lokalen Netz und im Internet sowie Sicherheitsthemen ein. Für die dritte Auflage wurden die Themen neu gegliedert und der Stoff aktualisiert. Das Buch bezieht sich auf die seit 2007 stabile Version etch. Anwendungsprogramme werden von Wulf Alex im Buch Debian GNU/Linux in der Praxis (ISBN 978-3-540-23786-0) erläutert.

Linux-Firewalls mit iptables & Co - Ralf Spenneberg 2006

Beowulf Cluster Computing with Linux - Thomas Lawrence Sterling 2002

Enabling technologies - An overview of cluster computing / Thomas Sterling / - Node Hardware / Thomas Sterling / - Linux / Peter H. Beckman / - Network Hardware / Thomas Sterling / - Network Software / Thomas Sterling / - Setting Up clusters : installation and configuration - How fast is my beowulf? / David Bailey / - Parallel programming / - Parallel programming with MPI / William Gropp / - Advanced topics in MPI programming / William Gropp / - Parallel programming with PVM / Al Geist / - Fault-tolerant and adaptive programs with PVM / Al Geist / - Managing clusters / - Cluster workload management / James Patton Jones / - Condor : a distributed job scheduler / - Maui scheduler : A multifunction cluster scheduler / David B. Jackson / - PBS : portable batch system / James Patton Jones / - PVFS : parallel virtual file system / Walt Ligon / - Chiba city : the Argonne scalable cluster.

UNIX and Linux System Administration Handbook - Evi Nemeth 2017-09-14

“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. *Building a Cloud Computing Service* - Binh Nguyen

As the world moves towards a more globally and electronically connected future, access to the Internet is becoming more commonplace for business, educational, as well as entertainment purposes. Virtually everyone now has a small, mobile device of some sort which will allow them access to the Internet. The concept of "Cloud Computing" was born as a direct consequence of such connectivity and this has resulted in services advancing towards the Internet "Cloud". This allows smaller devices to possess far greater functionality than ever before whether it is via websites and/or other secondary protocols. This document provides advice on how to build a cloud service whether that may be for commercial, educational, and/or more altruistic purposes. It is based on past experience, general knowledge, as well as personal research. It is not intended to be read by people who are new to computing. While it was originally intended only to cover technical aspects of building a cloud service-based company it has since expanded into a document that covers the actual business aspects of building a cloud service-based company as well. It uses Open Source technologies, but takes concepts from all fields. An appendix detailing the “how to commence the beginnings of a cloud service” has also been provided. You will need at least two computers, enough network equipment to hook them up, an Internet connection as well as possibly a Linux distribution to install on your computer. Feedback/credit on any ideas that are subsequently put into action based on the content of this document would be appreciated. Any feedback on the content of this document is welcome. Every attempt has been made to ensure that the instructions and information herein are accurate and reliable. Please send corrections, comments, suggestions and questions to the author. All trademarks and copyrights are the property of their owners, unless otherwise indicated. Use of a term in this document should not be regarded as affecting the validity of any trademark or service mark. The author would appreciate and consider it courteous if notification of any and all modifications, translations, and printed versions are sent to him. Please note that this is an organic document that will change as we learn more about this new computing paradigm. The latest copy of this document can be found either on the author’s website, blog, and/or <http://www.tldp.org>