How to Use System Activity Reporter (SAR) in Linux

[Linux Manual Page Sar](#)

Donald A. Tevault

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The Ultimate Linux Shell Scripting Guide Donald A. Tevault,2024-10-18 Master Linux Shells Your Complete Guide to Practical Success with Bash Zsh PowerShell Key Features Develop portable scripts using Bash Zsh and PowerShell that work seamlessly across Linux macOS and Unix systems Progress seamlessly through chapters with clear concepts practical examples and hands on labs for skill development Build real world Linux administration scripts enhancing your troubleshooting and management skills Book DescriptionDive into the world of Linux shell scripting with this hands on guide If you re comfortable using the command line on Unix or Linux but haven t fully explored Bash this book is for you It s designed for programmers familiar with languages like Python JavaScript or PHP who want to make the most of shell scripting This isn t just another theory heavy book you ll learn by doing Each chapter builds on the last taking you from shell basics to writing practical scripts that solve real world problems With nearly a hundred interactive labs you ll gain hands on experience in automation system administration and troubleshooting While Bash is the primary focus you ll also get a look at Z Shell and PowerShell expanding your skills and adaptability From mastering command redirection and pipelines to writing scripts that work across different Unix like systems this book equips you for real world Linux challenges By the end you ll be equipped to write efficient shell scripts that streamline your workflow and improve system automation What you will learn Grasp the concept of shells and explore their diverse types for varied system interactions Master redirection pipes and compound commands for efficient shell operations Leverage text stream filters within scripts for dynamic data manipulation Harness functions and build libraries to create modular and reusable shell scripts Explore the basic programming constructs that apply to all programming languages Engineer portable shell scripts ensuring compatibility across diverse platforms beyond Linux Who this book is for This book is for programmers who use the command line on Unix and Linux servers already but don t write primarily in Bash This book is ideal for programmers who ve been using a scripting language such as Python JavaScript or PHP and would like to understand and use Bash more effectively It s also great for beginning programmers who want to learn programming concepts   *Ultimate SQL Server and Azure SQL for Data Management and Modernization* Amit Khandelwal,Sumit Sarabhai ,2024-10-25 TAGLINE An Encyclopedic Guide to Data Management and Modernization with SQL Server KEY FEATURES Detailed exploration of deployments on Linux containers and Kubernetes Advanced techniques for securing optimizing and ensuring high availability in SQL Server Strategies for SQL Server modernization and implementing best practices for peak performance Expert guidance on performance monitoring and resolving SQL Server issues efficiently DESCRIPTION SQL Server 2022 marks a major advancement in data management technology offering features that empower organizations to harness their data like never before Ultimate SQL Server 2022 Data Management and Modernization is your comprehensive guide to mastering this powerful tool You will explore SQL Server 2022 s latest features including support for Linux containerization and Kubernetes deployments skills essential in

today s evolving data landscape As you navigate these innovations you will examine critical areas like security business continuity performance tuning and optimization Each chapter is crafted to illustrate practical applications in both on premises and cloud environments ensuring you grasp their significance Building on this foundation you will uncover best practices and modernization techniques tailored for Windows and Linux systems The book also includes insights from the authors extensive experience with the Microsoft SQL Server support team equipping you with effective troubleshooting methods to address performance challenges directly By the end of this book you will have a thorough understanding of SQL Server deployments empowering you to make strategic decisions and maximize its capabilities WHAT WILL YOU LEARN Understand how to deploy SQL Server on Linux Containers Kubernetes and hybrid environments Gain expertise in securing SQL Server environments using advanced encryption authentication and role based access control Learn strategies for performance tuning monitoring disaster recovery and high availability across on premises and cloud deployments Explore modernization techniques cloud migrations and future ready SQL Server architectures to enhance scalability and flexibility Implement industry proven best practices for managing configuring and maintaining SQL Server for optimal results Develop skills to identify troubleshoot and resolve SQL Server performance issues with expert guidance and tools WHO IS THIS BOOK FOR This book is designed for both beginners and seasoned professionals in database administration data engineering and development It covers SQL Server fundamentals while offering best practices for modernizing your data infrastructure Data enthusiasts and students interested in relational databases will also gain valuable insights from this insider s perspective on Microsoft technologies TABLE OF CONTENTS 1 SQL Server The Fundamentals 2 Realms of SQL Part 1 3 Realms of SQL Part 2 4 SQL Server and Security Hand in Glove 5 Business Continuity Strategies for SQL Offerings 6 Accelerate SQL Server Modernization 7 Achieving SQL Brilliance Through Best Practices 8 Monitoring Performance Tuning and Optimization Index   Linux Bible Christopher Negus,2015-04-27 The industry favorite Linux guide updated for Red Hat Enterprise Linux 7 and the cloud Linux Bible 9th Edition is the ultimate hands on Linux user guide whether you re a true beginner or a more advanced user navigating recent changes This updated ninth edition covers the latest versions of Red Hat Enterprise Linux 7 RHEL 7 Fedora 21 and Ubuntu 14 04 LTS and includes new information on cloud computing and development with guidance on Openstack and Cloudforms With a focus on RHEL 7 this practical guide gets you up to speed quickly on the new enhancements for enterprise quality file systems the new boot process and services management firewalld and the GNOME 3 desktop Written by a Red Hat expert this book provides the clear explanations and step by step instructions that demystify Linux and bring the new features seamlessly into your workflow This useful guide assumes a base of little or no Linux knowledge and takes you step by step through what you need to know to get the job done Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Linux Bible 9th Edition is the one

resource you need and provides the hands on training that gets you on track in a flash **Using and Administering Linux: Volume 1** David Both,2019-12-10 Become a Linux sysadmin and expert user of Linux even with no previous Linux experience and learn to manage complex systems with ease Volume 1 of this three volume training course introduces operating systems in general and Linux in particular It briefly explores the The Linux Philosophy for SysAdmins in preparation for the rest of the course This book provides you with the tools necessary for mastering user management installing updating and deleting software and using command line tools to do performance tuning and basic problem determination You ll begin by creating a virtual network and installing an instance of Fedora a popular and powerful Linux distribution on a VirtualBox VM that can be used for all of the experiments on an existing Windows or Linux computer You ll then move on to the basics of using the Xfce GUI desktop and the many tools Linux provides for working on the command line including virtual consoles various terminal emulators BASH and other shells Explore data streams and the Linux tools used to manipulate them and learn about the Vim text editor which is indispensable to advanced Linux users and system administrators and be introduced to some other text editors You ll also see how to install software updates and new software learn additional terminal emulators and some advanced shell skills Examine the sequence of events that take place as the computer boots and Linux starts up configure your shell to personalize it in ways that can seriously enhance your command line efficiency and delve into all things file and filesystems What You Will Learn Install Fedora Linux and basic configuration of the Xfce desktop Access the root user ID and the care that must be taken when working as root Use Bash and other shells in the Linux virtual consoles and terminal emulators Create and modify system configuration files with Use the Vimtext editor Explore administrative tools available to root that enable you to manage users filesystems processes and basic network communications Configure the boot and startup sequences Who This Book Is For Anyone who wants to learn Linux as an advanced user and system administrator at the command line while using the GUI desktop to leverage productivity **Mastering Linux Administration** Alexandru Calcatinge,Julian Balog,2021-06-18 Develop advanced skills for working with Linux systems on premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem packages users processes and daemonsDeploy Linux to the cloud with AWS Azure and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on premises and in the cloud This book covers the important topics you need to know about for your everyday Linux administration tasks The book starts by helping you understand the Linux command line and how to work with files packages and filesystems You ll then begin administering network services and hardening security and learn about cloud computing containers and orchestration Once you ve learned how to work with the command line you ll explore the essential Linux commands for managing users processes and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers As you

advance through the chapters you ll work with containers hypervisors virtual machines Ansible and Kubernetes You ll also learn how to deploy Linux to the cloud using AWS and Azure By the end of this Linux book you ll be well versed with Linux and have mastered everyday administrative tasks using workflows spanning from on premises to the cloud If you also find yourself adopting DevOps practices in the process we ll consider our mission accomplished What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem network security and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux AppArmor and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration this book is for you Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book   **Using and Administering Linux: Volume 2** David Both,2019-12-11 Experience an in depth exploration of logical volume management and the use of file managers to manipulate files and directories and the critical concept that in Linux everything is a file and some fun and interesting uses of the fact that everything is a file This book builds upon the skills you learned in Volume 1 of this course and it depends upon the virtual network and virtual machine created there More experienced Linux users can begin with this volume and download the assigned script that will set up the VM for the start of Volume 2 Instructions with the script will provide specifications for configuration of the virtual network and the virtual machine Refer to the volume overviews in the book s introduction to select the volume of this course most appropriate for your current skill level You ll see how to manage and monitor running processes discover the power of the special filesystems monitor and tune the kernel while it is running without a reboot You ll then turn to regular expressions and the power that using them for pattern matching can bring to the command line and learn to manage printers and printing from the command line and unlock the secrets of the hardware on which your Linux operating system is running Experiment with command line programming and how to automate various administrative tasks networking and the many services that are required in a Linux system Use the logs and journals to look for clues to problems and confirmation that things are working correctly and learn to enhance the security of your Linux systems and how to perform easy local and remote backups What You Will Learn Understand Logical Volume Management using file managers and special filesystemsExploit everything in a filePerform command line programming and basic automationConfigure printers and manage other hardwareManage system services with systemd user management security and local and remote backups using simple and freely available tools Who This Book Is For Anyone who wants to continue to learn Linux in depth as an advanced user and system administrator at the command line while using the GUI desktop to leverage productivity   **Linux:**

Powerful Server Administration Uday R. Sawant,Oliver Pelz,Jonathan Hobson,William Leemans,2017-04-27 Get hands on recipes to make the most of Ubuntu Server CentOS 7 Linux Server and RHEL 7 Server About This Book Get Linux servers up and running in seconds In depth guide to explore new features and solutions in server administration Maintain performance and security of your server solution by deploying expert configuration advice Who This Book Is For This Learning Path is intended for system administrators with a basic understanding of Linux operating systems and written with the novice to intermediate Linux user in mind To get the most of this Learning Path you should have a working knowledge of basic system administration and management tools What You Will Learn Set up high performance scalable and fault tolerant back ends with web and database servers Facilitate team communication with a real time chat service and collaboration tools Monitor manage and develop your server s file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web mail FTP database and domain name server technologies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Linux servers are frequently selected over other server operating systems for their stability security and flexibility advantages This Learning Path will teach you how to get up and running with three of the most popular Linux server distros Ubuntu Server CentOS 7 Server and RHEL 7 Server We will begin with the Ubuntu Server and show you how to make the most of Ubuntu s advanced functionalities Moving on we will provide you with all the knowledge that will give you access to the inner workings of the latest CentOS version 7 Finally touching RHEL 7 we will provide you with solutions to common RHEL 7 Server challenges This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products 1 Ubuntu Server Cookbook 2 CentOS 7 Linux Server Cookbook Second Edition 3 Red Hat Enterprise Linux Server Cookbook Style and approach This easy to follow practical guide contains hands on examples and solutions to real word administration problems and problems faced when building your RHEL 7 system from scratch using orchestration tools   Practical Linux System Administration Kenneth Hess,2023-04-18 This essential guide covers all aspects of Linux system administration from user maintenance backups filesystem housekeeping storage management and network setup to hardware and software troubleshooting and some application management It s both a practical daily reference manual for sysadmins and IT pros and a handy study guide for those taking Linux certification exams You ll turn to it frequently not only because of the sheer volume of valuable information it provides but because of the real world examples within and the clear useful way the information is presented With this book at your side you ll be able to Install Linux and perform initial setup duties such as connecting to a network Navigate the Linux filesystem via the command line Install software from repositories and source and satisfy dependencies Set permissions on files and directories Create modify and remove user accounts Set up networking Format and mount filesystems Perform basic troubleshooting on hardware and software Create and manage logical volumes

Work with SELinux Manage a firewall and iptables Shut down reboot and recover a system Perform backups and restores

<u>The Linux Philosophy for SysAdmins</u> David Both,2018-08-03 Reveals and illustrates the awesome power and flexibility of the command line and the design and usage philosophies that support those traits This understanding of how to extract the most from the Linux command line can help you become a better SysAdmin Understand why many things in the Linux and Unix worlds are done as they are and how to apply the Linux Philosophy to working as a SysAdmin The original Unix Linux Philosophy presented foundational and functional tenets rules guidelines and procedural methods that worked well However it was intended for the developers of those operating systems Although System Administrators could apply many of the tenets to their daily work many important tenets were missing Over the years that David Both has been working with Linux and Unix he has formulated his own philosophy one which applies more directly to the everyday life of the System Administrator This book defines a philosophy and then illuminates the practical aspects of that philosophy with real world experiments you can perform Inspired by David s real mentors and dedicated to them The Linux Philosophy for System Administrators is a mentor to SysAdmins everywhere remember If you fail you learn What You Will Learn Apply the Linux philosophy to working as a SysAdmin Unlock the power of the knowledge you already have Fully understand and access the vast power of the command line Review the power of Linux as a function of the philosophies that built it Who This Book Is For If you want to learn the secrets that make the best Linux SysAdmins powerful far beyond that of mere mortals if you want to understand the concepts that unlock those secrets if you want to be the SysAdmin that everyone else turns to when the bytes hit the fan then this book is for you   **LPIC-2: Linux Professional Institute Certification Study Guide** Christine Bresnahan,Richard Blum,2016-09-30 Full coverage of the latest LPI level 2 exams with bonus online test bank LPIC 2 is the one stop preparation resource for the Linux Professional Institute s Advanced Level certification exam With 100 percent coverage of all exam objectives this book provides clear and concise coverage of the Linux administration topics you ll need to know for exams 201 and 202 Practical examples highlight the real world applications of important concepts and together the author team provides insights based on almost fifty years in the IT industry This brand new second edition has been completely revamped to align with the latest versions of the exams with authoritative coverage of the Linux kernel system startup advanced storage network configuration system maintenance web services security troubleshooting and more You also get access to online learning tools including electronic flashcards chapter tests practice exams and a glossary of critical terms to help you solidify your understanding of upper level Linux administration topics The LPI level 2 certification confirms your advanced Linux skill set and the demand for qualified professionals continues to grow This book gives you the conceptual guidance and hands on practice you need to pass the exam with flying colors Understand all of the material for both LPIC 2 exams Gain insight into real world applications Test your knowledge with chapter tests and practice exams Access online study aids for more thorough preparation Organizations are flocking to the open source Linux as an excellent low cost secure alternative to

expensive operating systems like Microsoft Windows As the Linux market share continues to climb organizations are scrambling to find network and server administrators with expert Linux knowledge and highly practical skills The LPI level 2 certification makes you the professional they need and LPIC 2 is your ideal guide to getting there   *Up and Running with DB2 on Linux* Whei-Jen Chen,Christian Hideaki Kondo,Helmut Riegler,Lifang LF Liu,Veiko Spranger,IBM Redbooks,2008-06-25 Linux is one of the fastest growing server operating platforms within the past few years DB2 has long been known for its technology leadership This IBM Redbooks publication is an informative guide that describes how to effectively integrate DB2 for Linux UNIX and Windows LUW with SUSE and Red Hat Linux operating systems This book provides both introductory and detailed information about installing configuring managing and monitoring DB2 in a Linux environment We describe the DB2 product family and features for Linux and we provide step by step instructions for a single as well as for a multiple partition DB2 system installation and configuration We discuss how to migrate single and multiple partition DB2 to DB2 Version 9 5 and discuss in detail DB2 database administration in a Linux environment procedures and tools for database backup and recovery online maintenance and system monitoring We cover DB2 integrated tools and their features and use We discuss aspects of DB2 application development in the Linux environment and provide general tips about building and running DB2 applications on Linux and the use of DB2 application development tools   Big Data Analytics and Knowledge Discovery Carson K. Leung,Anton Dignös,Gabriele Kotsis,A. Min Tjoa,Ismail Khalil,2025-09-20 This book constitutes the proceedings of the 27th International Conference on Big Data Analytics and Knowledge Discovery DaWaK 2025 held in Bangkok Thailand during August 25 27 2025 The 12 full and 14 short papers included in the proceedings were carefully reviewed and selected from 62 submissions The proceedings also contain one keynote talk one invited talk and one tutorial The papers were organized in topical sections as follows Data mining and knowledge discovery sequential data analytics and recommendation systems graph data processing and analytics data management and indices Large language Models LLMs and Neural Networks   **Euro-Par 2018: Parallel Processing** Marco Aldinucci,Luca Padovani,Massimo Torquati,2018-08-20 This book constitutes the proceedings of the 24th International Conference on Parallel and Distributed Computing Euro Par 2018 held in Turin Italy in August 2018 The 57 full papers presented in this volume were carefully reviewed and selected from 194 submissions They were organized in topical sections named support tools and environments performance and power modeling prediction and evaluation scheduling and load balancing high performance architecutres and compilers parallel and distributed data management and analytics cluster and cloud computing distributed systems and algorithms parallel and distributed programming interfaces and languages multicore and manycore methods and tools theory and algorithms for parallel computation and networking parallel numerical methods and applications and accelerator computing for advanced applications   Pro Oracle Database 10g RAC on Linux John Shaw,Julian Dyke,2008-01-03 Real Application Clusters RAC and the Grid architecture are Oracle s strategy for scaling out

enterprise systems to cope with bigger workloads and more users Many books limit themselves by conceptualizing and theorizing about RAC technology but this book is the first to portray implementing and administering an Oracle 10g RAC system in a Linux environment This book features basic concepts underlying Linux and Oracle RAC design strategies hardware procurement and configuration and many other topics The RAC specific technologies described include configuration of the interconnect OCFS ASM Cluster Ready Services and Grid Control The Oracle features RMAN and Data Guard are also discussed along with available hardware options The authors include practical examples and configuration information so that upon reading this book you ll be armed with the information you need to build an Oracle RAC database on Linux whether it is on a single laptop or a 64 node Itanium cluster **Oracle DBA on Unix and Linux** Michael Wessler,Mike Wessler,2002 Maintain a robust mission critical Oracle8i database This book provides administrative solutions for the day to day DBA You ll learn how to install the database for maximum efficiency upgrades patches migrations tune and maintain its security The book also explains in detail how to build and support a fully functioning Oracle database This authoritative text contains up to date information available on Oracle s latest release and shows you how to configure database architecture install and set up with UNIX requirements create the actual database with scripts GUI management produc *Pro Oracle Database 11g RAC on Linux* Julian Dyke,Steve Shaw,Martin Bach,2011-01-11 Pro Oracle Database 11g RAC on Linux provides full life cycle guidance on implementing Oracle Real Application Clusters in a Linux environment Real Application Clusters commonly abbreviated as RAC is Oracle s industry leading architecture for scalable and fault tolerant databases RAC allows you to scale up and down by simply adding and subtracting inexpensive Linux servers Redundancy provided by those multiple inexpensive servers is the basis for the failover and other fault tolerance features that RAC provides Written by authors well known for their talent with RAC Pro Oracle Database 11g RAC on Linux gives you a rock solid and technically flawless foundation on which to build your RAC management skills Authors Julian Dyke and Steve Shaw share their hard won experience in building RAC clusters showing you how to build for success using the very latest Oracle technologies such as Automatic Storage Management ASM and Oracle Clusterware You ll learn to troubleshoot performance and other problems You ll even learn how to correctly deploy RAC in a virtual machine environment based upon Oracle VM which is the only virtualization solution supported by Oracle Corporation RAC is a complex and powerful technology It demands expertise in its deployment You can t just wing it in creating a RAC solution Julian and Steve have earned the right to term themselves expert in Pro Oracle Database 11g RAC on Linux they offer a rigorous and technically correct treatment of RAC that helps you build a solid foundation of expertise and achieve success Rigorous and technically accurate content Complete coverage of RAC from planning to implementation to rollout to ongoing maintenance and troubleshooting Up to date with the very latest RAC features **Linux Troubleshooting for System Administrators and Power Users** James Kirkland,David Carmichael,Christopher L. Tinker,Gregory L. Tinker,2006-04-27 Linux is a fast growing operating system with

power and appeal and enterprises worldwide are quickly adopting the system to utilize its benefits But as with all operating systems performance problems do occur causing system administrators to scramble into action Finally there is a complete reference for troubleshooting Linux quickly Linux Troubleshooting for System Administrators and Power Users is THE book for locating and solving problems and maintaining high performance in Red Hat Linux and Novell SUSE Linux systems This book not only teaches you how to troubleshoot Linux it shows you how the system works so you can attack any problem at its root Should you reinstall if Linux does not boot Or can you save time by troubleshooting the problem Can you enhance performance when Linux hangs or runs slowly Can you overcome problems with printing or accessing a network This book provides easy to follow examples and an extensive look at the tools commands and scripts that make Linux run properly A troubleshooting guide for all Linux users Focuses on common problems with start up printing login the network security and more Restore Linux when boot startup or shutdown fails and reinstall Linux properly when all troubleshooting fails Explains how to use some of the most popular Linux performance tools including top sar vmstat iostat and free Handle storage problems and CPU slamming to ensure high Linux performance Solve hardware device problems by deciphering error messages and using the lspci tool Use backup recover commands and tape libraries to create proper backups Identify and correct remote and network printing problems using spooler commands Gone are the days of searching online for solutions that are out of date and unreliable Whether you are a system admin developer or user this book is an invaluable resource for ensuring that Linux runs smoothly efficiently and securely   *Red Hat Enterprise Linux Administration Unleashed* Tammy Fox,2007-04-20 This comprehensive guide can help you administer Red Hat Enterprise Linux 5 effectively in any production environment no matter how complex or challenging Long time Red Hat insider Tammy Fox brings together today s best practices for the entire system lifecycle from planning and deployment through maintenance and troubleshooting Fox shows how to maximize your efficiency and effectiveness by automating day to day maintenance through scripting deploying security updates via Red Hat Network implementing central identity management services and providing shared data with NFS and Samba Red Hat Enterprise Linux 5 Administration Unleashed contains extensive coverage of network and web services from the Apache HTTP server and Sendmail email services to remote login with OpenSSH Fox also describes Red Hat s most valuable tools for monitoring and optimization and presents thorough coverage of security including a detailed introduction to Security Enhanced Linux SELinux   **Red Hat Enterprise Linux Troubleshooting Guide** Benjamin Cane,2015-10-19 Identify capture and resolve common issues faced by Red Hat Enterprise Linux administrators using best practices and advanced troubleshooting techniques About This Book Develop a strong understanding of the base tools available within Red Hat Enterprise Linux RHEL and how to utilize these tools to troubleshoot and resolve real world issues Gain hidden tips and techniques to help you quickly detect the reason for poor network storage performance Troubleshoot your RHEL to isolate problems using this example oriented guide full of real world solutions Who This Book Is For If you have

a basic knowledge of Linux from administration or consultant experience and wish to add to your Red Hat Enterprise Linux troubleshooting skills then this book is ideal for you The ability to navigate and use basic Linux commands is expected What You Will Learn Identify issues that need rapid resolution against long term root cause analysis Discover commands for testing network connectivity such as telnet netstat ping ip and curl Spot performance issues with commands such as top ps free iostat and vmstat Use tcpdump for traffic analysis Repair a degraded file system and rebuild a software raid Identify and troubleshoot hardware issues using dmesg Troubleshoot custom applications with strace and knowledge of Linux resource limitations In Detail Red Hat Enterprise Linux is an operating system that allows you to modernize your infrastructure boost efficiency through virtualization and finally prepare your data center for an open hybrid cloud IT architecture It provides the stability to take on today s challenges and the flexibility to adapt to tomorrow s demands In this book you begin with simple troubleshooting best practices and get an overview of the Linux commands used for troubleshooting The book will cover the troubleshooting methods for web applications and services such as Apache and MySQL Then you will learn to identify system performance bottlenecks and troubleshoot network issues all while learning about vital troubleshooting steps such as understanding the problem statement establishing a hypothesis and understanding trial error and documentation Next the book will show you how to capture and analyze network traffic use advanced system troubleshooting tools such as strace tcpdump dmesg and discover common issues with system defaults Finally the book will take you through a detailed root cause analysis of an unexpected reboot where you will learn to recover a downed system Style and approach This is an easy to follow guide packed with examples of real world core Linux concepts All the topics are presented in detail while you re performing the actual troubleshooting steps   *Systems Performance* Brendan Gregg,2020-12-09 Systems Performance Second Edition covers concepts strategy tools and tuning for operating systems and applications using Linux based operating systems as the primary example A deep understanding of these tools and techniques is critical for developers today Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end user experience and lower costs especially for cloud computing environments that charge by the OS instance Systems performance expert and best selling author Brendan Gregg summarizes relevant operating system hardware and application theory to quickly get professionals up to speed even if they have never analyzed performance before Gregg then provides in depth explanations of the latest tools and techniques including extended BPF and shows how to get the most out of cloud web and large scale enterprise systems Key topics covered include Hardware kernel and application internals and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU memory file system disk and networking usage Sophisticated profiling and tracing with perf Ftrace and BPF BCC and bpftrace Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up to date coverage of Linux operating systems and environments Systems Performance Second Edition also addresses issues that apply to any computer

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