

Linux Performance Tuning And Capacity Planning

Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you're under pressure for results

The fourth edition of 'Unix Unleashed' will take a different tack from previous editions and other Unix books:It is

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readable as though it is a series of lectures on individual topics from Unix Wizards. This different approach will take the reader through the following topics: Basic operation of the system and system administration in its simplest form: managing users and disks, starting up and shutting down the system, authenticating user connections, and administering the X Window System. Common subsystems - the typical day-to-day tasks of system administration: sharing files, providing basic web services, printing, e-mail, and backing up the system. The Unix toolset to make system administration more reliable and more powerful, and to administer more complex and important systems running on top of Unix. System administration as a profession: much work needs to be done not to do the job in a purely technical sense but in a practical, real-world sense.

This IBM® Redbooks® publication shows the power of IBM System z® virtualization and flexibility in sharing resources in a flexible production environment. In this book, we outline the planning and setup of Linux on System z to move from a development or test environment into production. As an example, we use one logical partition (LPAR) with shared CPUs with memory for a production environment and another LPAR that shares some CPUs, but also has a dedicated one for production. Running in IBM z/VM® mode allows for virtualization of servers and based on z/VM shares, can prioritize and control their resources. The size of the LPAR or z/VM resources depends on the workload and the applications that run that workload. We examine a typical web server environment, Java applications, and

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describe it by using a database management system, such as IBM DB2®. Network decisions are examined with regards to VSWITCH, shared Open Systems Adapter (OSA), IBM HiperSockets™ and the HiperPAV, or FCP/SCSI attachment used with a storage area network (SAN) Volume Controller along with performance and throughput expectations. The intended audience for this IBM Redbooks publication is IT architects who are responsible for planning production environments and IT specialists who are responsible for implementation of production environments.

This IBM Redbooks publication discusses z/VM and Linux operations from the perspective of the z/OS programmer or system programmer. Although other books have been written about many of these topics, this book gives enough information about each topic to describe z/VM and Linux on IBM System z operations to somebody who is new to both environments. This book is intended for z/OS programmers and system programmers who are transitioning to the z/VM and Linux on System z environments and who want a translation guide for assistance. We base this book on our experiences using System z10 Enterprise Edition, z/VM version 5.3 RSU 0701, and Novell SUSE Linux Enterprise Server (SLES) 10 on System z.

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest

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advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations for dynamic infrastructure management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener,

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open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world.

As workloads are being offloaded to IBM® LinuxONE based cloud environments, it is important to ensure that these workloads and environments are secure. This IBM Redbooks® publication describes the necessary steps to secure your environment from the hardware level through all of the components that are involved in a LinuxONE cloud infrastructure that use Linux and IBM z/VM®. The audience for this book is IT architects, IT Specialists, and those users who plan to use LinuxONE for their cloud environments.

"Most Indispensable Linux Book" --2001 Linux Journal Readers Choice Awards Authoritative Answers to All Your Linux Questions You can rely on the fully updated second edition of Linux System Administration for answers to all your questions about installing, configuring, and administering Linux. Written by two Linux experts, this book teaches you, step-by-step, all the standard and advanced techniques you need to know to set up and maintain a secure, effective Linux environment. Scores of clear, consistent examples illustrate these techniques in detail--so you stay on track and accomplish all your goals. Coverage includes: *

- * Installing a Linux server
- * Setting up and maintaining user and group accounts
- * Setting up Linux system security
- * Sharing files using Samba and NFS *

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Implementing a backup strategy * Troubleshooting common Linux problems * Setting up the X Window System * Setting up TCP/IP and connecting to the Internet * Setting up a mail server * Maintaining filesystems and partitions * Configuring printers * Improving system performance * Writing shell scripts * Using Webmin for cross-distribution GUI administration

The Craig Hunt Linux Library The Craig Hunt Linux Library provides in-depth, advanced coverage of the key topics for Linux administrators. Topics include Samba, Network Servers, DNS Server Administration, Apache, Security, and Sendmail. Each book in the series is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage for networking professionals working specifically in Linux environments.

This book on performance fundamentals covers UNIX, OpenVMS, Linux, Windows, and MVS. Most of the theory and systems design principles can be applied to other operating systems, as can some of the benchmarks. The book equips professionals with the ability to assess performance characteristics in unfamiliar environments. It is suitable for practitioners, especially those whose responsibilities include performance management, tuning, and capacity planning. IT managers with a technical outlook also benefit from the book as well as consultants and students in the world of systems for the first time in a professional capacity.

Get SQL Server up and running on the Linux operating system and containers. No database professional managing or developing SQL Server on

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Linux will want to be without this deep and authoritative guide by one of the most respected experts on SQL Server in the industry. Get an inside look at how SQL Server for Linux works through the eyes of an engineer on the team that made it possible. Microsoft SQL Server is one of the leading database platforms in the industry, and SQL Server 2017 offers developers and administrators the ability to run a database management system on Linux, offering proven support for enterprise-level features and without onerous licensing terms. Organizations invested in Microsoft and open source technologies are now able to run a unified database platform across all their operating system investments. Organizations are further able to take full advantage of containerization through popular platforms such as Docker and Kubernetes. Pro SQL Server on Linux walks you through installing and configuring SQL Server on the Linux platform. The author is one of the principal architects of SQL Server for Linux, and brings a corresponding depth of knowledge that no database professional or developer on Linux will want to be without. Throughout this book are internals of how SQL Server on Linux works including an in depth look at the innovative architecture. The book covers day-to-day management and troubleshooting, including diagnostics and monitoring, the use of containers to manage deployments, and the use of self-tuning and

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the in-memory capabilities. Also covered are performance capabilities, high availability, and disaster recovery along with security and encryption. The book covers the product-specific knowledge to bring SQL Server and its powerful features to life on the Linux platform, including coverage of containerization through Docker and Kubernetes.

What You'll Learn

- Learn about the history and internal of the unique SQL Server on Linux architecture.
- Install and configure Microsoft's flagship database product on the Linux platform
- Manage your deployments using container technology through Docker and Kubernetes
- Know the basics of building databases, the T-SQL language, and developing applications against SQL Server on Linux
- Use tools and features to diagnose, manage, and monitor SQL Server on Linux
- Scale your application by learning the performance capabilities of SQL Server
- Deliver high availability and disaster recovery to ensure business continuity
- Secure your database from attack, and protect sensitive data through encryption
- Take advantage of powerful features such as Failover Clusters, Availability Groups, In-Memory Support, and SQL Server's Self-Tuning Engine
- Learn how to migrate your database from older releases of SQL Server and other database platforms such as Oracle and PostgreSQL
- Build and maintain schemas, and perform management tasks from both GUI and

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command line Who This Book Is For Developers and IT professionals who are new to SQL Server and wish to configure it on the Linux operating system. This book is also useful to those familiar with SQL Server on Windows who want to learn the unique aspects of managing SQL Server on the Linux platform and Docker containers. Readers should have a grasp of relational database concepts and be comfortable with the SQL language.

As long as there's been a Web, people have been trying to make it faster. The maturation of the Web has meant more users, more data, more features, and consequently longer waits on the Web.

Improved performance has become a critical factor in determining the usability of the Web in general and of individual sites in particular. *Web Performance Tuning, 2nd Edition* is about getting the best possible performance from the Web. This book isn't just about tuning web server software; it's also about streamlining web content, getting optimal performance from a browser, tuning both client and server hardware, and maximizing the capacity of the network itself. *Web Performance Tuning* hits the ground running, giving concrete advice for quick results -- the "blunt instruments" for improving crippled performance right away. The book then shifts gears to give a conceptual background of the principles of computing performance. The latter half of the book examines each element of a web

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transaction -- from client to network to server -- to find the weak links in the chain and show how to strengthen them. In this second edition, the book has been significantly expanded to include: New chapters on Web site architecture, security, reliability, and their impact on performance Detailed discussion of scalability of Java on multi-processor servers Perl scripts for writing web performance spiders that handle logins, cookies, SSL, and more Detailed instructions on how to use Perl DBI and the open source program gnuplot to generate performance graphs on the fly Coverage of rstat, a Unix-based open source utility for gathering performance statistics remotely In addition, the book includes many more examples and graphs of real-world performance problems and their solutions, and has been updated for Java 2. This book is for anyone who has waited too long for a web page to display, or watched the servers they manage slow to a crawl. It's about making the Web more usable for everyone. LinuxONE is a portfolio of hardware, software, and solutions for an enterprise-grade Linux environment. It has been designed to run more transactions faster and with more security and reliability specifically for the open community. It fully embraces open source-based technology. Two servers are available for LinuxONE: The IBM® LinuxONE III LT1 and IBM LinuxONE III LT2. We describe these servers in "IBM LinuxONE servers" on page 5. Aside from still

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running SUSE Linux Enterprise Server and Red Hat Enterprise Linux Servers, LinuxONE runs Ubuntu, which is popular on x86 hardware. Ubuntu, which runs the cloud, smartphones, a computer that can remote control a planetary rover for NASA, many market-leading companies, and the Internet of Things, is now available on IBM LinuxONE servers. Together, these two technology communities deliver the perfect environment for cloud and DevOps. Ubuntu 16.04 on LinuxONE offers developers, enterprises, and Cloud Service Providers a scalable and secure platform for next generation applications that include OpenStack, KVM, Docker, and JuJu. The following are reasons why you would want to optimize your servers through virtualization using LinuxONE: Too many distributed physical servers with low utilization A lengthy provisioning process that delays the implementation of new applications Limitations in data center power and floor space High total cost of ownership (TCO) Difficulty allocating processing power for a dynamic environment This IBM Redbooks® publication provides a technical planning reference for IT organizations that are considering a migration from their x86 distributed servers to LinuxONE. This book walks you through some of the important considerations and planning issues that you might encounter during a migration project. Within the context of a pre-existing UNIX based or x86

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environment, it presents an end-to-end view of the technical challenges and methods necessary to complete a successful migration to LinuxONE. SAP can help you capture better information and deliver it more quickly, allowing you to make better decisions and maximize the business value of everything you do. However, SAP implementations require massive effort, total buy-in, and significant change throughout the organization. In *SAP Implementation Unleashed*, 10 expert SAP project managers, functional consultants, and technologists guide you through the entire journey, helping you avoid pain and pitfalls and gain all the benefits of SAP. The authors introduce start-to-finish business, technical, and project management roadmaps for successful SAP implementation. Then, drawing on their immense experience, they walk you through the entire process of planning and deployment—addressing make-or-break issues and hidden gaps that other guidebooks ignore. You'll discover how to employ processes, models, and toolsets that help you achieve implementation excellence while systematically reducing cost and business risk. Along the way, you'll find actionable advice and real-world insight into innovative project management, best-suited leadership, effective load testing, contemporary infrastructure implementation, and more. George W. Anderson is responsible for providing enterprise applications thought leadership

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for the EDS/HP office of the CTO. A long-time SAP consultant and PMI-certified project manager, George has authored several best-selling books and enjoys new challenges. Charles D. Nilson is a senior program manager for EDS/HP and has led many successful SAP implementation teams over the years. He is a PMI PMP and is SAP Partner Academy certified in MM and PP. Tim Rhodes is a senior SAP technical consultant for EDS/HP and a Basis/infrastructure veteran focused on implementing, migrating, and upgrading SAP Business Suite and NetWeaver solutions. Tim is also an SAP-certified technical consultant, OCP, MCSE, and HP Master ASE.

Detailed Information on How To... Define the business vision driving your implementation, and use it to design your solution Use TCO techniques to fully understand SAP's financial impact in your organization Structure your SAP project management office, business teams, technical support organization, and overall project team Size, plan, and test your SAP infrastructure to deliver the best performance and availability at the best cost Integrate SAP into an SOA environment Install and configure SAP Business Suite and NetWeaver components Perform basic functional configuration, testing, and change management activities Enable a smooth transition by successfully performing the critical tasks that immediately precede SAP Go-Live Choose the right mix of tools

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and applications to test, manage, and monitor SAP
Prepare your SAP Operations team for its post-implementation responsibilities

System Performance Tuning answers one of the most fundamental questions you can ask about your computer: How can I get it to do more work without buying more hardware? In the current economic downturn, performance tuning takes on a new importance. It allows system administrators to make the best use of existing systems and minimize the purchase of new equipment. Well-tuned systems save money and time that would otherwise be wasted dealing with slowdowns and errors.

Performance tuning always involves compromises; unless system administrators know what the compromises are, they can't make intelligent decisions. Tuning is an essential skill for system administrators who face the problem of adapting the speed of a computer system to the speed requirements imposed by the real world. It requires a detailed understanding of the inner workings of the computer and its architecture. System Performance Tuning covers two distinct areas: performance tuning, or the art of increasing performance for a specific application, and capacity planning, or deciding what hardware best fulfills a given role. Underpinning both subjects is the science of computer architecture. This book focuses on the operating system, the underlying hardware, and their

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interactions. Topics covered include: Real and perceived performance problems, introducing capacity planning and performance monitoring (highlighting their strengths and weaknesses). An integrated description of all the major tools at a system administrator's disposal for tracking down system performance problems. Background on modern memory handling techniques, including the memory-caching filesystem implementations in Solaris and AIX. Updated sections on memory conservation and computing memory requirements. In depth discussion of disk interfaces, bandwidth capacity considerations, and RAID systems. Comprehensive discussion of NFS and greatly expanded discussion of networking. Workload management and code tuning. Special topics such as tuning Web servers for various types of content delivery and developments in cross-machine parallel computing For system administrators who want a hands-on introduction to system performance, this is the book to recommend.

DB2 Universal Database v8 builds on the world's #1 enterprise database to simplify anytime/anywhere information integration, streamline management, automate resource tuning, enhance business intelligence, and maximize performance, scalability, and reliability. Now, IBM offers complete, start-to-finish coverage of DB2 Universal Database v8 administration and development for UNIX, Linux, and

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Windows platforms... "and authoritative preparation for IBM's newest DB2 certification exam." This definitive reference and self-study guide covers every aspect of deploying and managing DB2 Universal Database v8, including best practices for DB2 database design and development; day-to-day administration and backup; expert techniques for deploying networked, Internet-centered, and XML-based database applications; migrating to DB2 UDB v8; and much more. You'll also find an unparalleled collection of IBM tips and tricks for maximizing the performance, availability, and value of any database system. Coverage includes: Manageability and serviceability enhancements, including new tools for storage management and monitoring database health Performance improvement with multidimensional clustering, enhanced prefetching, threading of Java UDFs and stored procedures, and materialized query tables New Setup wizards, configuration assistants, GUI tools, and DB2 Administration Server (DAS) improvements Availability and scalability enhancements New DB2 v8 Replication and Data Warehouse Centers Major improvements for developers, including SQL, XML, JDBC, and CLE enhancements Whether you're a DBA, a developer, a DB2 certification candidate, or all three, "DB2 Universal Database v8 for Linux, UNIX, and Windows Database Administration Certification Guide" is the one book you can't afford to be without.

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Straight from IBM, the ultimate guide to running DB2 v8 and preparing for IBM's latest DB2 certification exam! In-depth coverage of DB2 v8 database administration and development Covers new DB2 v8 enhancements in manageability, serviceability, reliability, availability, and performance Contains in-depth coverage of new DB2 v8 tools, including the Replication, Data Warehouse, and Development Centers Presents expert tips and best practices from IBM's own DB2 customer support organization About the CD The CD-ROM included with this book contains a complete trial version of DB2 UDB V8 Personal Edition, plus the DB2 DEMO program to help explore the many features of DB2.

This comprehensive treatment of Access 2002 is indispensable for any serious Access developer as a tutorial and solution reference. -- This book is written by Access developers for Access developers. -- Numerous code examples and real-world solutions which progress step-by-step and don't leave any gaps. -- Disciplined, well-structured, and commented examples that come from real-world experience. Access 2002 Development Unleashed provides the experienced Access user information needed for high-end enterprise applications. This includes both Jet engine multi-user applications and SQL Server enterprise applications. This book will strengthen their existing Access knowledge and move them to a professional level of development. Written by

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respected Access professionals, this book will also give readers real world examples for their business solutions and advice from years of working experience. Topics include: database design, data access, VBA, Access Client/Server, user interfaces, interoperability, multi-user issues, and Web publishing with Access.

"Large-scale enterprise, cloud, and virtualized computing systems have introduced serious performance challenges. Now, internationally renowned performance expert Brendan Gregg has brought together proven methodologies, tools, and metrics for analyzing and tuning even the most complex environments. *Systems Performance: Enterprise and the Cloud* focuses on Linux® and Unix® performance, while illuminating performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform, and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants running Linux-based Ubuntu®, Fedora®, CentOS, and the illumos-based Joyent® SmartOSTM and OmniTI OmniOS®. He systematically covers modern systems performance, including the "traditional" analysis of CPUs, memory, disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the "unknown unknowns"

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of complex performance: bottlenecks that emerge from elements and interactions you were not aware of. The text concludes with a detailed case study, showing how a real cloud customer issue was analyzed from start to finish."--Back cover.

"Maximize your efforts toward effective performance tuning on AIX on IBM's Power Systems (IBM i, AS/400, iSeries, System i, AIX, and Linux). With detailed information on optimizing your CPU, memory, disk, and network I/O subsystems, along with data on both AIX 5.3 and AIX 6.1, the author gives detailed instructions on how to tune your system effectively, delivering the performance boost you desire. In addition to these topics, chapters on the new AIX 6.1, Linux, and Oracle running on IBM Power Systems are included. Packed with real-world know-how from author Ken Milberg--a 20-year systems administration veteran--this book is intended for systems professionals who need to understand, monitor, and control the factors that affect AIX performance on their servers. It covers systems monitoring and performance tuning on all subsystems as well as time-tested tuning and analysis methodology. The monitoring sections discuss tools that will allow you to immediately gain a quick and dirty view of the health of your system"--Resource description page.

This IBM® Redbooks® publication provides performance tuning tips and best practices for IBM

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Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful reference. The book is useful both in terms of best practices during application development and deployment and as a reference for setup, tuning, and configuration information. This book talks about many issues that

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can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved. This text is a practical guide to building, tuning and testing sendmail. The book is designed to appeal directly to administrators who are in a jam and need help quickly.

This IBM® Redbooks® publication focuses on gathering the correct technical information, and laying out simple guidance for optimizing code performance on IBM POWER8® processor-based systems that run the IBM AIX®, IBM i, or Linux operating systems. There is straightforward performance optimization that can be performed with a minimum of effort and without extensive previous experience or in-depth knowledge. The POWER8 processor contains many new and important performance features, such as support for eight hardware threads in each core and support for transactional memory. The POWER8 processor is a strict superset of the IBM POWER7+™ processor, and so all of the performance features of the POWER7+ processor, such as multiple page sizes, also appear in the POWER8 processor. Much of the technical information and guidance for optimizing

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performance on POWER8 processors that is presented in this guide also applies to POWER7+ and earlier processors, except where the guide explicitly indicates that a feature is new in the POWER8 processor. This guide strives to focus on optimizations that tend to be positive across a broad set of IBM POWER® processor chips and systems. Specific guidance is given for the POWER8 processor; however, the general guidance is applicable to the IBM POWER7+, IBM POWER7®, IBM POWER6®, IBM POWER5, and even to earlier processors. This guide is directed at personnel who are responsible for performing migration and implementation activities on POWER8 processor-based systems. This includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

Jakarta Tomcat is not only the most commonly used open source servlet engine today, it's become the de facto standard by which other servlet engines are measured. Powerful and flexible, it can be used as a stand-alone web server or in conjunction with another server, like Apache or IIS, to run servlets or JSPs. But mastery of Tomcat is not easy: because it's as complex as it is complete. Tomcat: The Definitive Guide answers vexing questions that users, administrators, and developers alike have been asking. This concise guide provides much

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needed information to help harness Tomcat's power and wealth of features. Tomcat: The Definitive Guide offers something for everyone who uses Tomcat. System and network administrators will find detailed instructions on installation, configuration, and maintenance. For users, it supplies insightful information on how to deploy Tomcat. And seasoned enterprise Java developers will have a complete reference to setting up, running, and using this powerful software. The book begins with an introduction to the Tomcat server and includes an overview of the three types of server configurations: stand-alone, in-process, and out-of-process. The authors show how directories are laid out, cover the initial setup, and describe how to set the environment variables and modify the configuration files, concluding with common errors, problems, and solutions. In subsequent chapters, they cover: The server.xml configuration file Java Security manager Authentication schemes and Tomcat users The Secure Socket Layer (SSL) Tomcat JDBC Realms Installing servlets and Java Server Pages Integrating Tomcat with Apache Advanced Tomcat configuration and much more. Tomcat: The Definitive Guide covers all major platforms, including Windows, Solaris, Linux, and Mac OS X, contains details on Tomcat configuration files, and has a quick-start guide to get developers up and running with Java servlets and JavaServer Pages. If you've struggled with this

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powerful yet demanding technology in the past, this book will provide the answers you need.

Discusses important concepts of Unix system administration, covering such topics as the design of a system, user communication, and disaster recovery.

Linux Performance Tuning and Capacity Planning
Sams Publishing

Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 11g Performance Tuning Recipes delivers. Oracle Database 11g Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a

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recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Written by a team of experienced database administrators successful in their careers Best Practices for JD Edwards EnterpriseOne Tuning and Optimization Achieve peak performance from your ERP platform while minimizing downtime and lowering TCO. Advanced Tuning for JD Edwards EnterpriseOne Implementations shows how to plan and adopt a structured, top-to-bottom maintenance methodology. Uncover and eliminate bottlenecks, maximize efficiency at every component layer, troubleshoot databases and web servers, automate system testing, and handle mobile issues. This Oracle Press guide offers complete coverage of the latest cloud, clustering, load balancing, and virtualization solutions. Understand the components of a structured tuning plan Establish benchmarks and implement key industry practices Perform changes and accurately measure system-wide impact Diagnose and repair HTTP, web application, and Java issues Troubleshoot Oracle Database connections and transactions Streamline Oracle's JD Edwards EnterpriseOne kernel and JDEnET processes Configure, test, and manage virtual machines and servers Work with Oracle Exadata Database Machine and Oracle Exalogic Elastic Cloud Big data solutions enable us to change how we do business by exploiting previously unused sources of information in ways that were not possible just a few years ago. In IBM® Smarter Planet® terms, big data helps us to change the way that the world works. The purpose of this IBM Redpaper™ publication is to consider the performance and capacity implications of big data solutions, which must be taken into account for them to be viable. This paper describes the

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benefits that big data approaches can provide. We then cover performance and capacity considerations for creating big data solutions. We conclude with what this means for big data solutions, both now and in the future. Intended readers for this paper include decision-makers, consultants, and IT architects.

This is the comprehensive guide to Linux on the mainframe straight from the IBM Linux experts. The book covers virtualization, security, systems management, and more. This IBM® Redbooks® publication provides guidance about how to configure, monitor, and manage your IBM DS8880 storage systems to achieve optimum performance, and it also covers the IBM DS8870 storage system. It describes the DS8880 performance features and characteristics, including hardware-related performance features, synergy items for certain operating systems, and other functions, such as IBM Easy Tier® and the DS8000® I/O Priority Manager. The book also describes specific performance considerations that apply to particular host environments, including database applications. This book also outlines the various tools that are available for monitoring and measuring I/O performance for different server environments, and it describes how to monitor the performance of the entire DS8000 storage system. This book is intended for individuals who want to maximize the performance of their DS8880 and DS8870 storage systems and investigate the planning and monitoring tools that are available. The IBM DS8880 storage system features, as described in this book, are available for the DS8880 model family with R8.0 release bundles (Licensed Machine Code (LMC) level 7.8.0).

Oracle Database 12c running on Linux is available for deployment on IBM® LinuxONE. The enterprise-grade Linux on LinuxONE solution is designed to add value to Oracle Database solutions, including the new functions that are

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introduced in Oracle Database 12c. In this IBM Redbooks® publication, we explore the IBM and Oracle Alliance and describe how Oracle Database benefits from LinuxONE. We then explain how to set up Linux guests to install Oracle Database 12c. We also describe how to use the Oracle Enterprise Manager Cloud Control Agent to manage Oracle Database 12c Release 1. Additionally, we discuss encryption for Oracle using Oracle Transparent Data Encryption (TDE) on Oracle 12c Release 2. We also describe a successful consolidation project from sizing to migration, performance management topics, and high availability. Finally, we end with a chapter about surrounding Oracle with Open Source software. The audience for this publication includes database consultants, installers, administrators, and system programmers. This publication is not meant to replace Oracle documentation, but to supplement it with our experiences while installing and using Oracle products.

Introduction to system performance; Monitoring system activity; Managing the workload; Memory performance; Disk performance issues; Network performance; Terminal performance; Kernel configuration.

The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics, including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL. Implement the right indexing strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variable to correctly tune the MySQL

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engine. If you deal with the intricacies and challenges of advanced MySQL functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning.

Features vendor-neutral coverage applicable to any storage network Includes a special case-study section citing real-world applications and examples The first vendor-neutral volume to cover storage network performance tuning and optimization Exacting performance monitoring and analysis maximizes the efficiency and cost-effectiveness of existing storage networks Meets the needs of network administrators, storage engineers, and IT professionals faced with shrinking budgets and growing data storage demands

This book overviews performance tuning and capacity planning for the experience professional. It also covers traditional UNIX tools that have been ported to Linux. Coverage includes: theoretical overview of performance tuning; a discussion of the risks involved and plans for prevention; examination of popular UNIX tools; examination of native Linux performance tuning tools; concepts of capacity planning; and designing and managing a capacity plan.

Surveys the best practices for all aspects of system administration, covering such topics as storage management, email, Web hosting, performance analysis, virtualization, DNS, security, and configuration management.

This IBM® Redbooks® publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7® and POWER7+™ processors. This

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advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX® and Linux operating systems, focusing on the more pervasive performance opportunities that are identified, and how to capitalize on them. The technical information was developed by a set of domain experts at IBM. The focus of this book is to gather the right technical information, and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7+ systems that run the AIX or Linux operating systems. This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in-depth knowledge. This optimization work can:

- Improve the performance of the application that is being optimized for the POWER7 system
- Carry over improvements to systems that are based on related processor chips
- Improve performance on other platforms

The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7-based servers, which includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

Starts with the basics of Red Hat, the leading Linux distribution in the U.S., such as network planning and Red Hat installation and configuration

Offers a close look at the new Red Hat Enterprise Linux 4 and Fedora Core 4 releases

New chapters cover configuring a database server, creating a VNC server, monitoring performance, providing Web services, exploring SELinux security

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basics, and exploring desktops Demonstrates how to maximize the use of Red Hat Network, upgrade and customize the kernel, install and upgrade software packages, and back up and restore the file system The four CDs contain the full Fedora Core 4 distribution

Authoritative Answers to All Your Samba Questions Linux Samba Server Administration is the most complete, most advanced guide to Samba you'll find anywhere. Written by a leading Linux expert, this book teaches you, step-by-step, all the standard and advanced Samba techniques you'll need to make Linux and UNIX machines operate seamlessly as part of your Windows network. Throughout, scores of clear, consistent examples illustrate these techniques in detail—so you stay on track and accomplish all your goals. Coverage includes:

- Installing Samba
- Setting up file sharing
- Setting up printer sharing
- Using Samba as a client
- Setting up a working user authentication system
- Using automation to expand Samba's capabilities
- Setting up Samba as a domain controller
- Configuring NetBIOS name server functions
- Configuring Samba for optimal interoperation with other servers
- Managing user accounts
- Optimizing Samba for maximum speed
- Securing Samba against intrusion
- Using Samba as a backup server
- Troubleshooting Samba
- Configuring Samba to work with a variety of client OSs

About the Library The Craig Hunt Linux Library is an eight-book set that provides in-depth, advanced coverage of the key topics for Linux administrators. Topics include Samba, System Administration, Sendmail, Apache, NFS and Automounter, and Linux Security. Each book in the

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library is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage of networking professionals working specifically in Linux environments.

IT organizations face pressure to increase productivity, improve application performance, support global collaboration, improve data protection, and minimize costs. In today's WAN-centered environments, traditional LAN-oriented infrastructure approaches are insufficient to meet these goals. Application Acceleration and WAN Optimization Fundamentals introduces a better solution: integrating today's new generation of accelerator solutions to efficiently and effectively scale networks beyond traditional capabilities while improving performance and minimizing costs through consolidation. Ted Grevers and Joel Christner begin by reviewing the challenges network professionals face in delivering applications to globally distributed workforces. You learn how accelerators are transforming application business models, enabling IT departments to centralize and consolidate resources while also delivering consistently superior performance. Grevers and Christner show how to identify network consumers, prioritize traffic, and guarantee appropriate throughput and response times to business-critical applications. You learn how to use quality of service techniques such as packet classification and marking and traffic policing, queuing, scheduling, and shaping. Next, you compare options for integrating accelerators and optimization services into your network and for optimizing content delivery. The authors show how to address application protocol-related

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performance problems that cannot be resolved through compression or flow optimization alone. In the final chapter, the authors walk you through several real-world scenarios for utilizing accelerator technology. Ted Grevers, Jr., is the solution manager for the Cisco® Video IPTV Systems Test and Architecture (C-VISTA) team. He has extensive experience in the content delivery network (CDN) market, focusing on enterprise and service provider content delivery and application optimization needs. Joel Christner, CCIE® No. 15311, is the manager of technical marketing for the Cisco Application Delivery Business Unit (ADBU). He has extensive experience with application protocols, acceleration technologies, LAN/WAN infrastructure, and storage networking. Grevers and Christner are key contributors to the design and architecture of Cisco application delivery and application acceleration solutions. Provide high-performance access to remote data, content, video, rich media, and applications Understand how accelerators can improve network performance and minimize bandwidth consumption Use NetFlow to baseline application requirements and network utilization Ensure network resources are allocated based on business priorities Identify performance barriers arising from networks, protocols, operating systems, hardware, file systems, and applications Employ application-specific acceleration components to mitigate the negative impact of latency and bandwidth consumption Integrate content delivery networks (CDN) to centrally manage the acquisition, security, and distribution of content to remote locations

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Leverage WAN optimization technologies to improve application throughput, mitigate the impact of latency and loss, and minimize bandwidth consumption Optimize the performance of WANs and business-critical WAN applications This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Category: Cisco Press/Networking Covers: Network Optimization

Offering accumulated observations of interviews with hundreds of job candidates, these books provide useful insights into which characteristics make a good IT professional. These handy guides each have a complete set of job interview questions and provide a practical method for accurately assessing the technical abilities of job candidates. The personality characteristics of successful IT professionals are listed and tips for identifying candidates with the right demeanor are included. Methods for evaluating academic and work histories are described as well.

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