

[Books] Systems Performance Enterprise And The Cloud Brendan Gregg

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Systems Performance-
Brendan Gregg 2013-10-07
The Complete Guide to
Optimizing Systems
Performance Written by the
winner of the 2013 LISA
Award for Outstanding
Achievement in System
Administration 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

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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® SmartOS™ 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" 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. Coverage includes • Modern performance analysis and tuning: terminology, concepts, models, methods, and techniques • Dynamic tracing

techniques and tools, including examples of DTrace, SystemTap, and perf • Kernel internals: uncovering what the OS is doing • Using system observability tools, interfaces, and frameworks • Understanding and monitoring application performance • Optimizing CPUs: processors, cores, hardware threads, caches, interconnects, and kernel scheduling • Memory optimization: virtual memory, paging, swapping, memory architectures, busses, address spaces, and allocators • File system I/O, including caching • Storage devices/controllers, disk I/O workloads, RAID, and kernel I/O • Network-related performance issues: protocols, sockets, interfaces, and physical connections • Performance implications of OS and hardware-based virtualization, and new issues encountered with cloud computing • Benchmarking: getting accurate results and avoiding common mistakes This guide is indispensable for anyone who operates enterprise or cloud environments: system, network, database, and web admins; developers; and other

professionals. For students and others new to optimization, it also provides exercises reflecting Gregg's extensive instructional experience.

Systems Performance, 2nd Edition

Brendan Gregg 2020 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've 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 system. The book will be a go-to reference for many years to come and, like the first edition, required reading at leading tech companies. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for

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details.

BPF Performance Tools-

Brendan Gregg 2019-11-27
BPF and related observability tools give software professionals unprecedented visibility into software, helping them analyze operating system and application performance, troubleshoot code, and strengthen security. BPF Performance Tools: Linux System and Application Observability is the industry's most comprehensive guide to using these tools for observability. Brendan Gregg, author of the industry's definitive guide to system performance, introduces powerful new methods and tools for doing analysis that leads to more robust, reliable, and safer code. This authoritative guide: Explores a wide spectrum of software and hardware targets Thoroughly covers open source BPF tools from the Linux Foundation iovisor project's bcc and bpfftrace repositories Summarizes performance engineering and kernel internals you need to understand Provides and

discusses 150+ bpfftrace tools, including 80 written specifically for this book: tools you can run as-is, without programming — or customize and develop further, using diverse interfaces and the bpfftrace front-end You'll learn how to use BPF (eBPF) tracing tools to analyze CPUs, memory, disks, file systems, networking, languages, applications, containers, hypervisors, security, and the Linux kernel. You'll move from basic to advanced tools and techniques, producing new metrics, stack traces, custom latency histograms, and more. It's like having a superpower: with Gregg's guidance and tools, you can analyze virtually everything that impacts system performance, so you can improve virtually any Linux operating system or application.

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The Art of Computer

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Systems Performance

Analysis-Raj Jain 1991-04-16
The Art of Computer Systems Performance Analysis "At last, a welcome and needed text for computer professionals who require practical, ready-to-apply techniques for performance analysis. Highly recommended!" -Dr. Leonard Kleinrock University of California, Los Angeles "An entirely refreshing text which has just the right mixture of theory and real world practice. The book is ideal for both classroom instruction and self-study." -Dr. Raymond L. Pickholtz President, IEEE Communications Society "An extraordinarily comprehensive treatment of both theoretical and practical issues." -Dr. Jeffrey P. Buzen Internationally recognized performance analysis expert ". it is the most thorough book available to date" -Dr. Erol Gelenbe Université René Descartes, Paris ". an extraordinary book.. A worthy addition to the bookshelf of any practicing computer or communications engineer" - Dr. Vinton G. Cer??? Chairman, ACM SIGCOMM "This is an unusual object, a textbook that one wants to sit

down and peruse. The prose is clear and fluent, but more important, it is witty." -Allison Mankin The Mitre Washington Networking Center Newsletter

Computer Systems Performance Evaluation and Prediction-Paul Fortier, D.Sc. 2003-07-09 Table of contents

The High Performance Enterprise-Donna R. Neusch 1998-06-01 "This book is written for the manager who wants to make their company more flexible, more competitive, more successful, and a more satisfying place to work--what we call the High Performance Enterprise. It explains how this kind of enterprise can be created through two interrelated processes: one strategic and one people-oriented. . . . [U]ntil now, no books have simultaneously provided (1) a process for creating the High Performance Enterprise, and (2) a process for linking the people side of the company to the business strategy. Our

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goal is to do both, and to provide a model for tying both processes together. Whether you're skimming this book for a few good ideas or seeking a complete battle plan, we hope that you will find in these chapters the tools you need to change your company into a High Performance Enterprise." --from the Introduction In today's fast-paced, rapidly growing business environment, survival truly does depend on being the fittest. For companies, this means performing at the highest level possible to be more flexible, more competitive, and ultimately, more successful than the rest of the field. Attaining--and maintaining--peak performance may be easier said than done, however, as bold initiatives once thought to be the answer have fallen short of expectations and yielded less than stellar results. What, then, is the solution? In The High Performance Enterprise--now completely revised and expanded--management consultant Donna Neusch and operations manager Alan Siebenaler shed some much-

needed light on the ongoing dilemma of improving performance and sustaining long-term standards of excellence. For the past several years, companies have strived to change the way work is performed and business is conducted, trying everything from TQM, teams, and Kaizen to QFD, right-sizing, and activity-based costing. Yet, despite these various techniques, results have been less than managers have hoped. Why the shortcomings? In most cases, the reason has been that people systems, including work design, compensation systems, and team structures, have either been ignored, ineffective, or counterproductive--costly mistakes that need to be corrected if a company is to succeed. The High Performance Enterprise, Second Edition emphasizes the crucial role of people systems in the overall performance improvement program, examines its relationship with another important component--strategic direction--and shows you how to tie them together seamlessly to achieve optimal

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results. With complete details on both subprocesses, you'll learn about key concepts that are integral to strategic direction, such as mission, values, and vision, as well as the basics needed to turn this direction into action. To help you strengthen and reinvent the people side of your business, you'll find a proven 10-step process that incorporates managing performance and compensation, defining flexibility and teams, developing staffing strategies for future skills, and planning for implementation, among other fundamentals. Packed with helpful case studies, numerous real-world examples, and practical applications from the field, *The High Performance Enterprise, Second Edition* offers new solutions for age-old problems: how best to improve performance and increase return on compensation dollars. Essential reading for all managers.

Auditing Information Systems-Abraham Nyirongo
2015-03-11 The role of the

information systems auditor is not just about compliance and performance testing but goes beyond by adding value to the enterprise through being an IS advisor to management. This book, whilst covering all the necessary skills in IS auditing, also focuses on the role of the IS auditor in enhancing the performance of the enterprise. The IS auditor is a key member of the enterprise and ensures that technology is used appropriately, protects data, and provides a secure environment. The book outlines the IS audit process in detail, enabling the reader to acquire necessary skills on how to conduct an IS audit. Included in the book are other formative skills, such as IT general controls, applications controls, IT governance, information security, IT risk, and disaster recovery. The book also covers all the necessary technologies an IS auditor requires to learn and understand in order to be an effective auditor. A good flair for technology is a must for one to be a good IS auditor. The book focuses on both learning the technology and developing appropriate

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evidence-gathering skills.

CentOS High Performance-

Gabriel Canepa 2016-01-30

Create high availability clusters to enhance system performance using CentOS 7
About This Book Master the concepts of high performance and high availability to eliminate performance bottlenecks Maximize the uptime of services running in a CentOS 7 cluster A step-by-step guide that will provide knowledge of methods and approaches to optimize the performance of CentOS clusters Who This Book Is For This book is targeted at system administrators: those who want a detailed, step-by-step guide to learn how to set up a high-availability CentOS 7 cluster, and those who are looking for a reference book to help them learn or refresh the necessary skills to ensure their systems and respective resources are utilized optimally. No previous knowledge of high-availability systems is needed, though the reader is expected to have at least some degree of familiarity with any spin-off of the Fedora family of Linux

distributions, preferably CentOS. What You Will Learn Install a CentOS 7 cluster and network infrastructure Configure firewall, networking, and clustering services and settings Set up and test a HAC (high-availability cluster) to host an Apache web server and a MariaDB database server Monitor performance and availability Identify bottlenecks and troubleshoot issues Improve performance and ensure high availability In Detail CentOS is the enterprise level Linux OS, which is 100% binary compatible to Red Hat Enterprise Linux (RHEL). It acts as a free alternative to RedHat's commercial Linux offering, with only a change in the branding. A high performance cluster consists in a group of computers that work together as one set parallel, hence minimizing or eliminating the downtime of critical services and enhancing the performance of the application. Starting with the basic principles of clustering, you will learn the necessary steps to install a cluster with two CentOS 7 servers. We will then set up

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and configure the basic required network infrastructure and clustering services. Further, you will learn how to take a proactive approach to the split-brain issue by configuring the failover and fencing of the cluster as a whole and the quorum of each node individually. Further, we will be setting up HAC and HPC clusters as a web server and a database server. You will also master the art of monitoring performance and availability, identifying bottlenecks, and exploring troubleshooting techniques. At the end of the book, you'll review performance-tuning techniques for the recently installed cluster, test performance using a payload simulation, and learn the necessary skills to ensure that the systems, and the corresponding resources and services, are being utilized to their best capacity. Style and approach An easy-to-follow and step-by-step guide with hands-on instructions to set up real-world simple cluster scenarios that will start you on the path to building more complex applications on your own.

Automated Enterprise Systems for Maximizing Business Performance-

Papajorgji, Petraq 2015-09-25

The integration of recent technological advances into modern business processes has allowed for greater efficiency and productivity. However, while such improvements are immensely beneficial, the modeling and coordination of these activities offers a unique set of challenges that must be addressed. Automated Enterprise Systems for Maximizing Business Performance is a pivotal reference source for the latest scholarly research on the modeling and application of automated business systems. Featuring extensive coverage on a variety of topics relating to the design, implementation, and current developments of such systems, this book is an essential reference source for information system practitioners, business managers, and advanced-level students seeking the latest research on achievements in this field. This publication

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features timely, research-based chapters within the context of business systems including, but not limited to, enterprise security, mobile technology, and techniques for the development of system models.

Enterprise System Performance Standard Requirements

Gerardus Blokdyk 2019-03-05 How do you lead with Enterprise system Performance in mind? When was the Enterprise system Performance start date? What tools and technologies are needed for a custom Enterprise system Performance project? Who is responsible for ensuring appropriate resources (time, people and money) are allocated to Enterprise system Performance? Is maximizing Enterprise system Performance protection the same as minimizing Enterprise system Performance loss? This breakthrough Enterprise system Performance self-assessment will make you the principal Enterprise system Performance domain

specialist by revealing just what you need to know to be fluent and ready for any Enterprise system Performance challenge. How do I reduce the effort in the Enterprise system Performance work to be done to get problems solved? How can I ensure that plans of action include every Enterprise system Performance task and that every Enterprise system Performance outcome is in place? How will I save time investigating strategic and tactical options and ensuring Enterprise system Performance costs are low? How can I deliver tailored Enterprise system Performance advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Enterprise system Performance essentials are covered, from every angle: the Enterprise system Performance self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so

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that Enterprise system Performance outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Enterprise system Performance practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Enterprise system Performance are maximized with professional results. Your purchase includes access details to the Enterprise system Performance self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria:

- The latest quick edition of the book in PDF
- The latest complete edition of the book in PDF, which criteria correspond to the criteria in...
- The Self-Assessment Excel Dashboard
- Example pre-filled Self-Assessment Excel

Dashboard to get familiar with results generation - In-depth and specific Enterprise system Performance Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Power Systems Enterprise Servers with PowerVM Virtualization and RAS-Dino Quintero 2013-03-06 This IBM® Redbooks® publication illustrates implementation, testing, and helpful scenarios with IBM Power® Systems 780 and 795 using the comprehensive set of the Power virtualization features. We focus on the Power Systems functional improvements, in particular, highlighting the reliability,

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availability, and serviceability (RAS) features of the enterprise servers. This document highlights IBM Power Systems Enterprise Server features, such as system scalability, virtualization features, and logical partitioning among others. This book provides a documented deployment model for Power 780 and Power 795 within a virtualized environment, which allows clients to plan a foundation for exploiting and using the latest features of the IBM Power Systems Enterprise Servers. The target audience for this book includes technical professionals (IT consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing IBM Power Systems solutions and support.

Management Control Systems-Kenneth A.

Merchant 2011-09-19 With its unique range of case studies, real life examples and comprehensive coverage of the latest management control-related tools and techniques, Management Control Systems is the ideal

guide to this complex and multidimensional subject for upper level undergraduates, postgraduates and practising professionals.

Solving Enterprise Applications Performance Puzzles-Leonid Grinshpan

2012-02-08 Poorly performing enterprise applications are the weakest links in a corporation's management chain, causing delays and disruptions of critical business functions. This groundbreaking book frames enterprise application performance engineering not as an art but as applied science built on model-based methodological foundation. The book introduces queuing models of enterprise application that visualize, demystify, explain, and solve system performance issues. Analysis of these models will help to discover and clarify unapparent connections and correlations among workloads, hardware architecture, and software parameters.

Enterprise Systems Backup and Recovery

Preston de Guise 2008-10-01 The success of information backup systems does not rest on IT administrators alone. Rather, a well-designed backup system comes about only when several key factors coalesce—business involvement, IT acceptance, best practice designs, enterprise software, and reliable hardware. *Enterprise Systems Backup and Recovery: A Corporate Insurance Policy* provides organizations with a comprehensive understanding of the principles and features involved in effective enterprise backups. Instead of focusing on any individual backup product, this book recommends corporate procedures and policies that need to be established for comprehensive data protection. It provides relevant information to any organization, regardless of which operating systems or applications are deployed, what backup system is in place, or what planning has been done for business continuity. It explains how backup must be included in

every phase of system planning, development, operation, and maintenance. It also provides techniques for analyzing and improving current backup system performance. After reviewing the concepts in this book, organizations will be able to answer these questions with respect to their enterprise: What features and functionality should be expected in a backup environment? What terminology and concepts are unique to backup software, and what can be related to other areas? How can a backup system be monitored successfully? How can the performance of a backup system be improved? What features are just "window dressing" and should be ignored, as opposed to those features that are relevant? Backup and recovery systems touch on just about every system in an organization. Properly implemented, they can provide an enterprise with greater assurance that its information is safe. By utilizing the information in this book, organizations can take a greater step toward improving the security of their

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data and preventing the devastating loss of data and business revenue that can occur with poorly constructed or inefficient systems.

Improving Public Enterprise Performance-

Victor Powell 1987 Discussion on public enterprise management and operations in developing countries.

Application Performance Management (APM) in the Digital Enterprise-

Rick Sturm 2017-02-11 Application Performance Management (APM) in the Digital Enterprise enables IT professionals to be more successful in managing their company's applications. It explores the fundamentals of application management, examines how the latest technological trends impact application management, and provides best practices for responding to these changes. The recent surge in the use of containers as a way to simplify management and deploy applications has created new challenges, and

the convergence of containerization, cloud, mobile, virtualization, analytics, and automation is reshaping the requirements for application management. This book serves as a guide for understanding these dramatic changes and how they impact the management of applications, showing how to create a management strategy, define the underlying processes and standards, and how to select the appropriate tools to enable management processes. Offers a complete framework for implementing effective application management using clear tips and solutions for those responsible for application management Draws upon primary research to give technologists a current understanding of the latest technologies and processes needed to more effectively manage large-scale applications Includes real-world case studies and business justifications that support application management investments

Enterprise Software

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Sourcing Performance-

Marko Nöhren 2015-11-02

This book opens the “black box” of software sourcing by explaining how dynamic software alignment is established and how it impacts business performance outcomes. By investigating how software-sourcing modes are related to value generation in the post-implementation phase, it shows researchers and managers the impact logic of on-demand, on-premises, and in-house software on dynamic fit and process-level performance outcomes in a client organization. It describes dynamic IT alignment as the key to success in a fast-moving digital world with software-as-a-service on the rise and highlights the fact that today companies can choose between developing software in-house (make) or sourcing packaged systems in an on-premises (buy) or an on-demand (lease) mode. This book is the first to explicitly compare these sourcing arrangements with each other in terms of alignment and business performance.

Mobile Web and Intelligent Information Systems-

Muhammad Younas

2017-08-04 This book constitutes the refereed proceedings of the 14th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2017, held in Prague, Czech Republic, in August 2017. The 23 full papers together with 4 short papers presented in this volume were carefully reviewed and selected from 77 submissions. The call for papers of the MobiWis 2017 included new and emerging areas such as: mobile web systems, recommender systems, security and authentication, context-awareness, mobile web and advanced applications, cloud and IoT, mobility management, mobile and wireless networks, and mobile web practice and experience.

Design of Enterprise

Systems-Ronald E. Giachetti

2011-05-19 In practice, many different people with backgrounds in many

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different disciplines contribute to the design of an enterprise. Anyone who makes decisions to change the current enterprise to achieve some preferred structure is considered a designer. What is problematic is how to use the knowledge of separate aspects of the enterprise to achieve a globally optimized enterprise. The synthesis of knowledge from many disciplines to design an enterprise defines the field of enterprise engineering. Because enterprise systems are exceedingly complex, encompassing many independent domains of study, students must first be taught how to think about enterprise systems. Specifically written for advanced and intermediate courses and modules, *Design of Enterprise Systems: Theory, Architecture, and Methods* takes a system-theoretical perspective of the enterprise. It describes a systematic approach, called the enterprise design method, to design the enterprise. The design method demonstrates the principles, models, methods, and tools needed to design enterprise systems.

The author uses the enterprise system design methodology to organize the chapters to mimic the completion of an actual project. Thus, the book details the enterprise engineering process from initial conceptualization of an enterprise to its final design. Pedagogical tools available include: For instructors: PowerPoint® slides for each chapter Project case studies that can be assigned as long-term projects to accompany the text Quiz questions for each chapter Business Process Analyzer software available for download For students: Templates, checklists, forms, and models to support enterprise engineering activities The book fills a need for greater design content in engineering curricula by describing how to design enterprise systems. Inclusion of design is also critical for business students, since they must realize the import their decisions may have on the long-term design of the enterprises they work with. The book's practical focus and project-based approach coupled with the pedagogical tools gives

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students the knowledge and skills they need to lead enterprise engineering projects.

Institute of Public Enterprise Journal- 1989

System Performance and Management Analytics-P. K.

Kapur 2018-07-30 This book shares key insights into system performance and management analytics, demonstrating how the field of analytics is currently changing and how it is used to monitor companies' efforts to drive performance. Managing business performance facilitates the effective accomplishment of strategic and operational goals, and there is a clear and direct correlation between using performance management applications and improved business and organizational results. As such, performance and management analytics can yield a range of direct and indirect benefits, boost operational efficiency and unlock employees' latent potential, while at the same

time aligning services with overarching goals. The book addresses a range of topics, including software reliability assessment, testing, quality management, system-performance management, analysis using soft-computing techniques, and management analytics. It presents a balanced, holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics. Accordingly, it offers a comprehensive guide to one of the most pressing issues in today's technology-dominated world, namely, that most companies and organizations find themselves awash in a sea of data, but lack the human capital, appropriate tools and knowledge to use it to help them create a competitive edge.

Enterprise Performance Intelligence and Decision Patterns-Vivek Kale

2017-10-05 "Vivek Kale has written a great book on performance management that focuses on decision-

making; on continuous, incremental improvement; and on identifying common patterns in becoming a more intelligent organization." —James Taylor, CEO of Decision Management Solutions and author of Real-World Decision Modeling with DMN "Introducing the concepts of decision patterns and performance intelligence, Vivek Kale has written another important book on the issues faced by contemporary organizations."—Gary Cokins, author of Predictive Business Analytics and Performance Management: Integrating Strategy Execution, Methodologies, Risk, and Analytics Enterprise Performance Intelligence and Decision Patterns unravels the mystery of enterprise performance intelligence (EPI) and explains how it can transform the operating context of business enterprises. It provides a clear understanding of what EPI means, what it can do, and application areas where it is practical to use. The need to be responsive to evolving customer needs and desires creates organizational

structures where business intelligence (BI) and decision making is pushed out to operating units that are closest to the scene of the action. Closed-loop decision making resulting from a combination of on-going performance management with on-going BI can lead to an effective responsive enterprise; hence, the need for performance intelligence (PI). This pragmatic book: Introduces the technologies such as data warehousing, data mining, analytics, and business intelligence systems that are a first step toward enabling data-driven enterprises. Details decision patterns and performance decision patterns that pave the road for performance intelligence applications. Introduces the concepts, principles, and technologies related to performance measurement systems. Describes the concepts and principles related to balance scorecard systems (BCS). Introduces aspects of performance intelligence for the real-time enterprises. Enterprise Performance Intelligence and Decision Patterns shows how a

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company can design and implement instruments ranging from decision patterns to PI systems that can enable continuous correction of business unit behavior so companies can enhance levels of productivity and profitability.

The High Performance Enterprise-Donna R. Neusch 1993-01-01 An exciting, hands-on book for companies and managers struggling to achieve the ever-higher levels of performance required today. What sets this book apart is that it offers a real sense of direction and much practical advice. Moving beyond the "touchy-feely" approach to empowerment, the authors have designed a nine-step program for worker empowerment that has been tested and proven in dozens of companies ranging from mid-sized businesses to Fortune 500 firms.

WebSphere Business Process Management and WebSphere Enterprise Service Bus V7

Performance Tuning-IBM Business Process Management Performance teams 2010-04-30 This IBM® Redpaper™ publication was produced by the WebSphere® Business Process Management performance teams. It provides performance tuning tips and best practices for WebSphere Process Server 7.0.0.1, WebSphere Enterprise Service Bus 7.0.0.1, WebSphere Integration Developer 7.0.0.1, WebSphere Business Monitor 7.0.0.0, and WebSphere Business Modeler 7.0.0.1. 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: Service Component Architecture (SCA), Service Data Object (SDO), and Business Process Execution Language for Web Services (BPEL). This paper is aimed at a wide variety of groups, both within IBM (development, services, technical sales, and so forth) and by customers. For those who are either considering or are in the early stages of

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implementing a solution incorporating these products, this document should prove a useful reference, both in terms of best practices during application development and deployment, and as a reference for setup, tuning, and configuration information. This paper provides a useful introduction to many of the issues influencing each product's performance, and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, those who have already implemented a solution using these products might use the information presented here to gain insight as to how their overall integrated solution performance might be improved. All of these products build on the core capabilities of the WebSphere Application Server infrastructure, so BPM solutions also benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java™ Virtual Machines (JVMs). Pointers to

this information can be found in "Related publications" on page 67. The reader is encouraged to use this paper in conjunction with these references..

The High Performance Enterprise-Walter Kruz 2004

This book presents, as a how-to guide, a compelling methodology for improving the operational and financial performance of a firm. The book focuses on the optimum utilization of capital assets and human resources to support the firm's business strategy and, therefore, gain a competitive advantage. It complements publications on the Balanced Scorecard by providing rather detailed sets of performance metrics applicable to Supply Chain, Customer Relationship Management, and Intellectual Capital improvement efforts. Managers involved in business improvement programs will benefit from the development of performance metrics for intellectual capital. MBA students will find especially useful the concise description of the best practices and issues affecting

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enterprise performance today. Reviews Finally, consideration for non-financial assets handled in a non-financial manner. A coming together of several current management concepts, along with a way to measure and evaluate their value to the company. A useful reference for building, implementing and evaluating a plan of improved efficiency. L. Sehr RA/AVP, Bank of America, San Jose, California This book provides a good overview of important financial and process redesign concepts that can influence business performance. This resource covers a broad range of ideas from continuous improvement, business strategies, balanced scorecards and value measurement tools. Non-financial persons will find this especially helpful, as information is presented in a non-technical manner, a quick read and intuitively links each idea or concept. David Bell Senior Manager, Guidant, Inc., Santa Clara, California The High Performance Enterprise is written in a very readable and concise language. The authors manage to explain in a very

direct way the relationship between enterprise high performance and each of the four steps to achieving it; all this, without getting bogged down with the details on specific techniques and practices that are generally known in the industry. The discussion stays focused on the importance of metrics and simulation and their link to overall financial/accounting concepts that gauge the value of the enterprise and its performance. Because the book touches on, and gives examples of, all major functional aspects of an enterprise, I would recommend it for use in an undergraduate strategic management or capstone course in business administration program. The book would be particularly useful in an MBA course. George Guim Ed.D. Head of Business Administration Department The National Hispanic University, San Jose, California

Red Hat Enterprise Linux Troubleshooting Guide-
Benjamin Cane 2015-10-19
Identify, capture and resolve

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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

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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.

Improving State Enterprise Performance-Russell Muir 1995-01-01 Living Standards Measurement Study Paper No. 120. Provides an overview of the World Bank's Living Standard Measurement Studies (LSMS) surveys and outlines how readers may find more information on specific surveys. A first reference for

those interested in using LSMS data in their research.

Determinants of Enterprise Performance-Derek L.

Bosworth 2005 This book focuses on our understanding of the management of enterprise, and explores the strategies that can be adopted to improve enterprise performance. It considers the importance of the quality of management in providing leadership and being willing to take risks. It also debates the effectiveness of adopting high performance management practices such as human resource management and market promotional activities. In focusing on management best practice and its link with performance under conditions of risk and uncertainty, the study addresses two key questions: what is the current evidence about the factors that make some enterprises perform better than others? and what are the lessons for company and public policy? This comprehensive study will appeal to students and researchers of economics and economic management.

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Design, Performance and Scalability of the Distributed Enterprise Systems

Janusz S. Kowalik
2001 Enterprise systems supporting business processes in large companies and organizations, are critical for their business survival, and expensive to build and run. This book describes successful approaches to designing, and tuning for performance, large enterprise systems. In contrast to earlier mainframes, the modern distributed systems contain large numbers of components and simple capacity planning methods, applicable to mainframes, cannot be used for design or tuning of complex distributed systems. Methods that have proven to be successful are based on building predictive models that take into account key characteristics of hardware, software, data and communications.

Enterprise Performance Management Done Right-

Ron Dimon 2013-03-06 A

workable blueprint for developing and implementing performance management in order to improve revenue growth and profit margins Enterprise performance management (EPM) technology has been rapidly advancing, especially in the areas of predictive analysis and cloud-based solutions. Real Enterprise Performance Management introduces a framework for implementing and managing next-generation functionality for better insight, focus, and alignment of EPM. This blueprint shows that EPM can have a direct positive impact on revenue growth, operating margin, asset utilization, and cash cycle efficiency. Introduces a framework for implementing and managing next-generation functionality for better insight, focus, and alignment Reveals that EPM can have a strong impact on revenue growth, operating margin, asset utilization, cash cycle efficiency Today's businesses have a great deal of data and technology, but less-than-fact decisions are still made. Executives need a structured

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framework for gathering, analyzing, and debating the best ways to deploy capital, people and time. Real Enterprise Performance Management joins IT and finance in a digestible blueprint for developing and implementing performance management in order to improve revenue growth and profit margins.

Enterprise Performance Intelligence and Decision Patterns

Vivek Kale
2017-10-05 "Vivek Kale has written a great book on performance management that focuses on decision-making; on continuous, incremental improvement; and on identifying common patterns in becoming a more intelligent organization."
—James Taylor, CEO of Decision Management Solutions and author of Real-World Decision Modeling with DMN "Introducing the concepts of decision patterns and performance intelligence, Vivek Kale has written another important book on the issues faced by contemporary

organizations."—Gary Cokins, author of Predictive Business Analytics and Performance Management: Integrating Strategy Execution, Methodologies, Risk, and Analytics Enterprise Performance Intelligence and Decision Patterns unravels the mystery of enterprise performance intelligence (EPI) and explains how it can transform the operating context of business enterprises. It provides a clear understanding of what EPI means, what it can do, and application areas where it is practical to use. The need to be responsive to evolving customer needs and desires creates organizational structures where business intelligence (BI) and decision making is pushed out to operating units that are closest to the scene of the action. Closed-loop decision making resulting from a combination of on-going performance management with on-going BI can lead to an effective responsive enterprise; hence, the need for performance intelligence (PI). This pragmatic book: Introduces the technologies such as data warehousing,

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data mining, analytics, and business intelligence systems that are a first step toward enabling data-driven enterprises. Details decision patterns and performance decision patterns that pave the road for performance intelligence applications. Introduces the concepts, principles, and technologies related to performance measurement systems. Describes the concepts and principles related to balance scorecard systems (BCS). Introduces aspects of performance intelligence for the real-time enterprises. Enterprise Performance Intelligence and Decision Patterns shows how a company can design and implement instruments ranging from decision patterns to PI systems that can enable continuous correction of business unit behavior so companies can enhance levels of productivity and profitability.

Enterprise Risk Management-Terje Aven
2019-12-20 Enterprise Risk Management: Advances on its Foundation and Practice

relates the fundamental enterprise risk management (ERM) concepts and current generic risk assessment and management principles that have been influential in redefining the risk field over the last decade. It defines ERM with a particular focus on understanding the nexus between risk, uncertainty, knowledge and performance. The book argues that there is critical need for ERM concepts, principles and methods to adapt to the latest and most influential risk management developments, as there are several issues with outdated ERM theories and practices; problems include the inability to effectively and systematically balance both opportunity and downside performance, or relying too much on narrow probability-based perspectives for risk assessment and decision-making. It expands traditional loss-based risk principles into new and innovative performance-risk frameworks, and presents fundamental risk principles that have recently been developed by the Society for Risk Analysis (SRA). All relevant statistical and risk

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concepts are clearly explained and interpreted using minimal mathematical notation. The focus of the book is centered around ideas and principles, more than technicalities. The book is primarily intended for risk professionals, researchers and graduate students in the fields of engineering and business, and should also be of interest to executive managers and policy makers with some background in quantitative methods such as statistics.

Automated Enterprise Systems for Maximizing Business Performance-
2015

Enterprise IT Governance, Business Value and Performance Measurement-Shi, Nan Si
2010-10-31 "This book provides evidence-based insights into the management and contribution of IT in organizations, to offer practical advice & solutions, models and tools that are instrumental in getting business value from IT"--

Provided by publisher.

Red Hat Enterprise Linux 8: Desktops and Administration-

Richard Petersen 2019-12-10 This book examines Red Hat Enterprise Linux 8 for the desktop user and administrator (including RHEL 8.1). Though administrative tools are covered, the emphasis is on what a user would need to know to perform tasks. The focus here is on what users face when using Red Hat Enterprise Linux 8, covering topics like applications, the GNOME desktop, shell commands, and the administration and network tools. The GNOME desktop is examined in detail, including configuration options. Administration topics are also covered including user management, software management, repositories, services, systemd, system monitoring, shell configuration, encryption, network connections, shared resources, authentication, SELinux, firewalls, shell configuration, backups, and

printers. The book is organized into two parts: desktops and administration.

High Performance Computing Systems. Performance Modeling, Benchmarking and Simulation-Stephen A. Jarvis
2014-09-30 This book constitutes the refereed proceedings of the 4th International Workshop, PMBS 2013 in Denver, CO, USA in November 2013. The 14 papers presented in this volume were carefully reviewed and selected from 37 submissions. The selected articles broadly cover topics on massively parallel and high-performance simulations, modeling and simulation, model development and analysis, performance optimization, power estimation and optimization, high performance computing, reliability, performance analysis, and network simulations.

Global Implications of Modern Enterprise Information Systems:

Technologies and Applications-Gunasekaran, Angappa 2008-12-31 "This book presents useful strategies, techniques, and tools for the successful design, development, and implementation of enterprise information systems"--
Provided by publisher.

Web 2.0 Knowledge Technologies and the Enterprise-Paul Jackson
2010-05-17 Whilst enterprise technology departments have been steadily building their information and knowledge management portfolios, the Internet has generated new sets of tools and capabilities which provide opportunities and challenges for improving and enriching knowledge work. This book fills the gap between strategy and technology by focussing upon the functional capabilities of Web 2.0 in corporate environments and matching these to specific types of information requirement and behaviour. It takes a resource based view of the firm: why and how can the knowledge capabilities and information

assets of organisations be better leveraged using Web 2.0 tools? Identifying the underlying benefits requires the use of frameworks beyond profitability and cost control. Some of these perspectives are not in the usual business vocabulary, but when applied, demonstrate the role that can be played by Web 2.0, how to manage towards these and how to assess success. Transactive memory systems, social uncertainty, identity theory, network dynamics, complexity theory, organisational memory and the demographics of inter-generational change are not part of normal business

parlance but can be used to clarify Web 2.0 application and potentiality. Written by a well-respected practitioner and academic Draws on the author's practical experience as a technology developer, designer, senior manager and researcher Provides approaches to understanding and tackling real-world problems

IBM Journal of Research and Development- 1999