

Systems Performance Enterprise And The Cloud Brendan Gregg

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Integration Enterprise Network Testing Patterns for
Performance and Operability Architecting High
Performing, Scalable and Available Enterprise Web
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Performance Enterprise Smart Data Analyzing
Computer System Performance with
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Linux Observability with BPF

The methods and concepts presented in the bestselling first edition revolutionized the approach to the management and control of Lean companies. Enhanced with extensive end-of-chapter exercises and a CD-ROM with Lean accounting tools, the second edition of this preeminent practitioner's guide is now suitable for classroom use. Practical Lean Accoun

Enterprise Systems Integration

This book gathers the proceedings of the I-ESA'18 Conference, which was organised by the Fraunhofer IPK, on behalf of the European Virtual Laboratory for Enterprise Interoperability (INTEROP-VLab) and the DFI, and was held in Berlin, Germany in March 2018. It presents contributions ranging from academic research and case studies, to industrial and administrative experiences with interoperability that show how, in a globalised market scenario – where the ability to cooperate with other organisations efficiently is essential in order to remain economically, socially and environmentally cost-effective – the most innovative digitised and networked enterprises ensure that their systems and

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applications can interoperate across heterogeneous collaborative networks of independent organisations. Furthermore, the content addresses smart services, and the business impact of enterprise interoperability on organisations. Many of the papers in this ninth volume of the I-ESA Conference proceedings include examples and illustrations to help deepen readers' understanding and generate new ideas. Offering a detailed guide to the state of the art in systems interoperability, the book will be of great value to all engineers and computer scientists working in manufacturing and other process industries, and to software engineers and electronic and manufacturing engineers working in academic settings.

Enterprise Network Testing

Patterns for Performance and Operability

This handbook is a repository of state-of-the-art knowledge about enterprise resource planning (ERP) systems and applications. It presents cutting edge articles on ERP systems by leading researchers in the field from around the world. The articles discuss frontier areas of research in the field of ERP. They cover a wide range of topics concerned with ERP systems including their technology-related issues, their architecture, and their implementation. The book also presents case studies and practical examples in its final section to further clarify the concepts.

Architecting High Performing, Scalable and Available Enterprise Web Applications

Architecting High Performing, Scalable and Available Enterprise Web Applications provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production operations and project management Exploration of synergies between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and

troubleshooting tips

Solving Enterprise Applications Performance Puzzles

Sustainable Enterprise Performance details a method for evaluating an enterprise's readiness and progress toward sustainable performance through a comprehensive set of qualitative and quantitative indicators. These indicators cover enterprise strategy for meeting both the impact of the enterprise within the framework of corporate social responsibility and the expectations of stakeholders, evolving and monitoring the product and service offerings and business processes. The second half of the book focuses more closely on fundamental determinants of performance, such as digital transformation and artificial intelligence, corporate culture, ethics and compliance, branding and e-reputation and best-practice Lean management, and provides practical measures against which companies may assess the maturity of their sustainable performance.

Enterprise Modeling

Enterprise Network Testing Testing Throughout the Network Lifecycle to Maximize Availability and Performance Andy Sholomon, CCIE® No. 15179 Tom Kunath, CCIE No. 1679 The complete guide to using testing to reduce risk and downtime in advanced enterprise networks Testing has become crucial to meeting enterprise expectations of near-zero network downtime. Enterprise Network Testing is the first

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comprehensive guide to all facets of enterprise network testing. Cisco enterprise consultants Andy Sholomon and Tom Kunath offer a complete blueprint and best-practice methodologies for testing any new network system, product, solution, or advanced technology. Sholomon and Kunath begin by explaining why it is important to test and how network professionals can leverage structured system testing to meet specific business goals. Then, drawing on their extensive experience with enterprise clients, they present several detailed case studies. Through real-world examples, you learn how to test architectural “proofs of concept,” specific network features, network readiness for use, migration processes, security, and more. Enterprise Network Testing contains easy-to-adapt reference test plans for branches, WANs/MANs, data centers, and campuses. The authors also offer specific guidance on testing many key network technologies, including MPLS/VPN, QoS, VoIP, video, IPsec VPNs, advanced routing (OSPF, EIGRP, BGP), and Data Center Fabrics.

- § Understand why, when, and how you should test your network
- § Use testing to discover critical network design flaws
- § Incorporate structured systems testing into enterprise architecture strategy
- § Utilize testing to improve decision-making throughout the network lifecycle
- § Develop an effective testing organization and lab facility
- § Choose and use test services providers
- § Scope, plan, and manage network test assignments
- § Leverage the best commercial, free, and IOS test tools
- § Successfully execute test plans, including crucial low-level details
- § Minimize the equipment required to test large-scale networks
- § Identify gaps in network readiness
- § Validate and

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refine device configurations § Certify new hardware, operating systems, and software features § Test data center performance and scalability § Leverage test labs for hands-on technology training This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Enterprise Information Systems

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

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

Enterprise Analytics

The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications. Using DTrace, you can dynamically instrument software and quickly answer virtually any question about its behavior. Now, for the first time, there's a comprehensive, authoritative guide to making the most of DTrace in any supported UNIX environment--from Oracle Solaris to OpenSolaris, Mac OS X, and FreeBSD. Written by key contributors to the DTrace community, DTrace teaches by example,

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presenting scores of commands and easy-to-adapt, downloadable D scripts. These concise examples generate answers to real and useful questions, and serve as a starting point for building more complex scripts. Using them, you can start making practical use of DTrace immediately, whether you're an administrator, developer, analyst, architect, or support professional. The authors fully explain the goals, techniques, and output associated with each script or command. Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks. You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system, including I/O, filesystems, and protocols Use DTrace in the application and database development process Identify and fix security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently, and build systems that work faster and more reliably.

Organizational Integration of Enterprise Systems and Resources: Advancements and Applications

Build your expertise in the BPF virtual machine in the Linux kernel with this practical guide for systems engineers. You'll not only dive into the BPF program lifecycle but also learn to write applications that

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observe and modify the kernel's behavior; inject code to monitor, trace, and securely observe events in the kernel; and more. Authors David Calavera and Lorenzo Fontana help you harness the power of BPF to make any computing system more observable. Familiarize yourself with the essential concepts you'll use on a day-to-day basis and augment your knowledge about performance optimization, networking, and security. Then see how it all comes together with code examples in C, Go, and Python. Write applications that use BPF to observe and modify the Linux kernel's behavior on demand Inject code to monitor, trace, and observe events in the kernel in a secure way—no need to recompile the kernel or reboot the system Explore code examples in C, Go, and Python Gain a more thorough understanding of the BPF program lifecycle

DTrace

Makes performance analysis and queueing theory concepts simple to understand and available to anyone with a background in high school algebra Presents the practical application of these concepts in the context of modern, distributed, computer system designs Packed with helpful examples that are based on the author's experience analyzing the performance of large-scale systems over the past 20 years.

Systems Performance

The Integrated Enterprise Excellence (IEE) system is a set of management techniques that innovatively

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builds on practices derived from the strengths of past systems--applying structured metrics and a no-nonsense roadmap to initiate process improvement and achieve predictable and sustainable bottom-line benefits.

The High Performance Enterprise

Written for IT service managers, consultants and other practitioners in IT governance, risk and compliance, this practical book discusses all the key concepts of COBIT®5, and explains how to direct the governance of enterprise IT (GEIT) using the COBIT®5 framework. The book also covers the main frameworks and standards supporting GEIT, discusses the ideas of enterprise and governance, and shows the path from corporate governance to the governance of enterprise IT.

Smart Data

Implement successful and cost-effective enterprise architecture projects. This book provides a new approach to developing enterprise architecture based on the idea of emergent behaviors—where instead of micromanaging system implementation, the enterprise architecture effort establishes clear goals and leaves the details to the implementation teams. System development efforts are measured based on their contribution to achieving business goals instead of implementing specific (possibly outdated) requirements. Most enterprise architecture initiatives employ one of the existing system architecture

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frameworks such as Zachman or The Open Group Architecture Framework, but these are not well-suited for enterprise architecture in a modern, agile organization. The new approach presented in this book is based on the author's experience with large enterprise architecture efforts. The approach leverages research into complex adaptive systems and emergent behaviors, where a few simple rules result in complex and efficient enterprise behaviors. Simplifying the task of establishing and maintaining the enterprise architecture cuts the costs of building and maintaining the architecture and frees up those resources for more productive pursuits. System implementers are given the freedom to rapidly adapt to changing user needs without the blessing of the enterprise modeling priesthood, and the architecture is transformed from a static pile of obscure models and documents into an operational framework that can be actively used to manage an enterprise's resources to better achieve business goals. The enterprise architect is free to stop focusing on building and maintaining models and start focusing on achieving business goals. What You'll Learn Refocus enterprise architecture on business needs by eliminating most of the enterprise-level models Delegate tasks to the development teams who do system implementation Document business goals, establish strategies for achieving those goals, and measure progress toward those goals Measure the results and gauge whether the enterprise architecture is achieving its goals Utilize appropriate modeling techniques that can be effectively used in an enterprise architecture Who This Book Is For Architecture practitioners and architecture managers:

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Practitioners are experienced architects who have used existing frameworks such as Zachman, and have experience with formal architecture modeling and/or model-based system engineering; managers are responsible for managing an enterprise architecture project and either have experience with enterprise architecture projects that were ineffective or are looking for a different approach that will be more cost-effective and allow for more organizational agility. Government program managers looking for a different approach to make enterprise architecture more relevant and easier to implement will also find this book of value.

Analyzing Computer System Performance with Perl::PDQ

The authors advocate attention to smart data strategy as an organizing element of enterprise performance optimization. They believe that “smart data” as a corporate priority could revolutionize government or commercial enterprise performance much like “six sigma” or “total quality” as organizing paradigms have done in the past. This revolution has not yet taken place because data historically resides in the province of the information resources organization. Solutions that render data smart are articulated in “technoid” terms versus the language of the board room. While books such as Adaptive Information by Pollock and Hodgson ably describe the current state of the art, their necessarily technical tone is not conducive to corporate or agency wide qualitative change.

Combating Spyware in the Enterprise

Structured to follow the software life cycle, *Patterns for Performance and Operability* provides advice and examples-based instructions at every phase. You can read it from start to finish or go directly to those chapters that interest you the most. Whatever approach you choose, you will learn:

- Define and document comprehensive non-functional requirements for any software system
- Define scope and logistics for non-functional test activities
- Execute non-functional tests and report results clearly and effectively
- Patterns for defensive software designs in common software scenarios that promote operability and availability
- Implement the right level of reporting, monitoring, and trending for highly available production software systems

Patterns for:

- Software designs that support simpler and more efficient operation in a production environment
- Software design that support high-performance and scalability

Strategies and Techniques for:

- Techniques for managing and troubleshooting during a production crisis
- Strategies for resisting project pressure to compromise on quality or completeness of non-functional activities in the software cycle

Aligning Enterprise, System, and Software Architectures

The topic of Enterprise Information Systems (EIS) is having an increasingly relevant strategic impact on global business and the world economy, and organizations are undergoing hard investments in

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search of the rewarding benefits of efficiency and effectiveness that these ranges of solutions promise. Organizational Integration of Enterprise Systems and Resources: Advancements and Applications show that EIS are at the same time responsible for tremendous gains in some companies and tremendous losses in others. Therefore, their adoption should be carefully planned and managed. This title highlights new ways to identify opportunities and overtake trends and challenges of EIS selection, adoption, and exploitation as it is filled with models, solutions, tools, and case studies. The book provides researchers, scholars, and professionals with some of the most advanced research, solutions, and discussions of Enterprise Information Systems design, implementation, and management.

Complex Enterprise Architecture

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.

Application Performance Management (APM) in the Digital Enterprise

Since the emerging discipline of engineering enterprise systems extends traditional systems engineering to develop webs of systems and systems-of-systems, the engineering management and management science communities need new approaches for analyzing and managing risk in engineering enterprise systems. Advanced Risk Analysis in Engineering Enterpri

BPF Performance Tools

Addresses the field of enterprise systems, covering progressive technologies, leading theories, and advanced applications.

Lean Enterprise Systems

Systems performance analysis and tuning lead to a better end-user experience and lower costs, especially for cloud computing environments that charge by the OS instance. Systems Performance, 2nd Edition covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the primary example. World-renowned systems performance expert 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, and to refresh and update advanced readers' knowledge. Gregg

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illuminates the latest tools and techniques, including extended BPF, showing how to get the most out of your systems in cloud, web, and large-scale enterprise environments. He covers these and other key topics: 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 Fully updated for current Linux operating systems and environments, Systems Performance, 2nd Edition addresses issues that apply to any computer system. The book will be a go-to reference for many years to come and recommended reading at many tech companies, like its predecessor first edition.

Lean Enterprise

"This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise, systems, and software architectures"--Provided by publisher.

Practical Lean Accounting

A workable blueprint for developing and implementing performancemanagement in order to improve revenue growth and profitmargins Enterprise performance management (EPM) technology has

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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 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 Management Done Right

This book shows software professionals exactly how to build high-performance, high-integrity distributed Transaction Processing (TP) systems for e-commerce, and other business-critical applications. For each product, Gorton presents in-depth coverage of system architecture, TP monitor management environments, and programming models, and walks through a

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complete sample application illustrating both TP monitor features and relevant programming APIs.

Enterprise Resource Planning Systems

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 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,

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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

Governance of Enterprise IT based on COBIT 5

"Large-scale enterprise, cloud, and virtualized computing systems have introduced serious performance challenges. Now, internationally renowned performance expert Brendan Gregg has

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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" 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.

Enterprise Interoperability VIII

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

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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

Management Accounting in Enterprise Resource Planning Systems

The field of enterprise systems integration is constantly evolving, as every new technology that is introduced appears to make all previous ones obsolete. Despite this continuous evolution, there is a set of underlying concepts and technologies that have been gaining an increasing importance in this field. Examples are asynchronous messaging through message queues, data and application adapters

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based on XML and Web services, the principles associated with the service-oriented architecture (SOA), service composition, orchestrations, and advanced mechanisms such as correlations and long-running transactions. Today, these concepts have reached a significant level of maturity and they represent the foundation over which most integration platforms have been built. This book addresses integration with a view towards supporting business processes. From messaging systems to data and application adapters, and then to services, orchestrations, and choreographies, the focus is placed on the connection between systems and business processes, and particularly on how it is possible to develop an integrated application infrastructure in order to implement the desired business processes. For this purpose, the text follows a layered, bottom-up approach, with application-oriented integration at the lowest level, followed by service-oriented integration and finally completed by process-oriented integration at the topmost level. The presentation of concepts is accompanied by a set of instructive examples using state-of-the-art technologies such as Java Message Service (JMS), Microsoft Message Queuing (MSMQ), Web Services, Microsoft BizTalk Server, and the Business Process Execution Language (BPEL). The book is intended as a textbook for advance undergraduate or beginning graduate students in computer science, especially for those in an information systems curriculum. IT professionals with a background in programming, databases and XML will also benefit from the step-by-step description of the various integration levels and the related implementation examples.

Enterprise Systems Backup and Recovery

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 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,

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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.

Power and Performance

An examination of the pros and cons of ERP systems and their role in e-commerce.

Sustainable Enterprise Performance

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This book analyzes various aspects of enterprise information systems (EIS), including enterprise resource planning, customer relationship management, supply chain management systems, and business process reengineering. It describes the evolution and functions of these systems, focusing on issues related to their implementation and upgrading. Enhanced with pedagogical features, the book can be read by graduate and undergraduate students, as well as senior management and executives involved in the study and evaluation of EIS.

Leading the Lean Enterprise Transformation, Second Edition

Power and Performance: Software Analysis and Optimization is a guide to solving performance problems in modern Linux systems. Power-efficient chips are no help if the software those chips run on is inefficient. Starting with the necessary architectural background as a foundation, the book demonstrates the proper usage of performance analysis tools in order to pinpoint the cause of performance problems, and includes best practices for handling common performance issues those tools identify. Provides expert perspective from a key member of Intel's optimization team on how processors and memory systems influence performance Presents ideas to improve architectures running mobile, desktop, or enterprise platforms Demonstrates best practices for designing experiments and benchmarking throughout the software lifecycle Explains the importance of profiling and measurement to determine the source of

performance issues

The Integrated Enterprise Excellence System

Updated with new information, illustrations, and leadership tools, *Leading the Lean Enterprise Transformation, Second Edition* describes how the metrics used by Toyota drive every line item in a financial statement in the right direction. Rather than focus on Lean tools and principles, the new edition of this bestselling reference focuses on what may be the least understood and most critical aspect of a Lean transformation: the building of a Lean culture. In addition to new appendices with background information and insightful stories on Lean leadership and implementation, it includes new information on tactical organization practices, strategy deployment, and Lean culture. An inductee to IndustryWeek's Hall of Fame, George Koenigsaecker illustrates successful strategies and valuable lessons learned with case histories of U.S. leaders who have been instrumental in bringing Lean to the forefront. He explains the use of value stream analysis at the leadership level and describes how to structure kaizen events that can improve the value stream. Organized in the chronological sequence that a leader embarking on a Lean journey would experience, the book discusses the methods used by the author during the Hon Company's successful Lean conversion, which doubled productivity, tripled revenues, and led IndustryWeek to recognize Hon as one of the "World's 100 Best Managed Firms." The book not only

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introduces powerful leadership tools—including strategy deployment, transformation value stream analysis, and transformation plan of care—but also arms potential change agents with the soft skills needed to define, develop, and communicate their vision. Detailing the steps required to sustain improvements, it supplies time-tested guidance for effective leadership throughout a Lean transformation in any organization.

Enterprise Transaction Processing Systems

Combating Spyware in the Enterprise is the first book published on defending enterprise networks from increasingly sophisticated and malicious spyware. Combating Spyware in the Enterprise begins by examining the various types of insidious spyware and adware currently propagating across the internet and infiltrating enterprise networks. This section closely examines Spyware's ongoing transformation from nuisance to malicious, sophisticated attack vector. Next, the book uncovers spyware's intricate economy and network of malicious hackers and criminals. Forensic investigations presented in this section of the book reveal how increasingly sophisticated spyware can compromise enterprise networks via trojans, keystroke loggers, system monitoring, distributed denial of service attacks, backdoors, viruses, and worms. After close examination of these attack vectors, the book begins to detail both manual and automated techniques for scanning your network for the presence of spyware, and customizing your

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IDS and IPS to detect spyware. From here, the book goes on to detail how to prevent spyware from being initially installed to mitigating the damage inflicted by spyware should your network become infected.

Techniques discussed in this section include slowing the exposure rate; web filtering; using FireFox, MacOSX, or Linux; patching and updating, machine restrictions, shielding, deploying anti-spyware, and re-imaging. The book concludes with an analysis of the future of spyware and what the security community must accomplish to win the ware against spyware. * A recent survey published by Information Security Magazine stated that "combating spyware" was the #2 priority for security professionals in 2005 * Despite the high priority placed on combating spyware by security professionals, there are no other books published or announced that address this market * Author Paul Piccard is Director of Research for Webroot, which is a market leader for pure-play anti-spyware vendors

Enterprise Java Performance

Enterprise modeling (EM) methods and techniques are indispensable for understanding the present situation of an enterprise and for preparing for its future - particularly in times of continuous organizational change, an increasing pace of innovation, new market challenges or technology advances. The authors combine a detailed description of the 4EM methodology with their concrete experience gathered in projects. Their book addresses the modeling procedure, modeling language and modeling

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practices in a uniquely integrated approach. It provides practical advice on common challenges faced by enterprises and offers a flexible EM method suitable for tackling those challenges. Much of the work presented stems from actual research projects and has been validated with scientific methods. The 4EM methodology has proven its practical value in a large number of successful development and/or change management projects in industry and the public sector. The book was written for anyone who wants to learn more about EM, with a specific focus on how to do it in practice and/or how to teach it. Its main target audience thus includes instructors in the field of EM or business information systems, students in Information Systems or Business Administration, and practitioners working in enterprise or change management. The authors describe a clear reading path for each of these audiences and complement the work with a set of slides and further teaching material available under www.4em-method.com.

Systems Performance

Learn how Lean IT can help companies deliver better customerservice and value Lean Enterprise Systems effectively demonstrates how the techniquesderived from Lean Manufacturing, combined with the thoughtfulapplication of information technology, can help all enterprisesimprove business performance and add significant value for theircustomers. The author also demonstrates how the basic concepts ofLean Manufacturing can be applied to create agile and responsiveLean IT. The book is divided into three

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parts that collectively explore how people, processes, and technology combine forces to facilitate continuous improvement: * Part One: Building Blocks of the Lean Enterprise sets forth the essentials of Lean. Readers discover where, when, and how Lean IT adds substantial value to the Lean Enterprise through integrated processes of planning, scheduling, execution, control, and decisionmaking across the full spectrum of operations. * Part Two: Building Blocks of Information Systems explores the primary components of an enterprise information system and how these components may be integrated to improve the flow of information supporting value streams. Readers learn how information systems help organize and deliver knowledge when and where it's needed. * Part Three: Managing Change with IT demonstrates how the skillful combination of process and information technology improvements empowers people to continuously improve the Lean Enterprise. Readers develop the skills to exploit emerging information technology tools and change management methods, crafting a Lean IT framework-reducing waste, complexity, and lead time-while adding measurable value. Executives, managers, and improvement teams across a broad range of industries, as well as IT professionals, can apply the techniques described in this publication to improve performance, add value, and create competitive advantage. The book's clear style and practical focus also makes it an excellent textbook for upper-level undergraduate and graduate courses in business, operations management, and business information systems.

Handbook of Research in Enterprise Systems

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 bpftrace repositories Summarizes performance engineering and kernel internals you need to understand Provides and discusses 150+ bpftrace 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 bpftrace 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

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performance, so you can improve virtually any Linux operating system or application.

Handbook of Research on Enterprise Systems

Current evidence points to management accountants using traditional software (such as spreadsheets) for budgeting, ABC, balanced scorecards and other performance management techniques independent of, rather than integrated with Enterprise Resource Planning (ERP) Systems. While there has been some limited research on the effects of ERP systems on management accountants, this report provides a comprehensive analysis of the consequences of implementation of ERP systems for management accountants. • This report provides a theoretical basis for studying the impact of Enterprise Resource Planning (ERP) systems on management accounting and provides critical insights into the opportunities provided by ERP systems for the most efficient use of management accounting techniques. • The seven UK case studies of ERP implementations reveal the correlation between the success of the system implementation and the development of the role of management accountants in business partners thereby identifying the changes and skills required of management accountants. • The book provides guidance to management accountants on the changes they need to make in order to achieve the most from an ERP system implementation.

Advanced Risk Analysis in Engineering

Enterprise Systems

How well does your organization respond to changing market conditions, customer needs, and emerging technologies when building software-based products? This practical guide presents Lean and Agile principles and patterns to help you move fast at scale—and demonstrates why and how to apply these paradigms throughout your organization, rather than with just one department or team. Through case studies, you'll learn how successful enterprises have rethought everything from governance and financial management to systems architecture and organizational culture in the pursuit of radically improved performance. Discover how Lean focuses on people and teamwork at every level, in contrast to traditional management practices Approach problem-solving experimentally by exploring solutions, testing assumptions, and getting feedback from real users Lead and manage large-scale programs in a way that empowers employees, increases the speed and quality of delivery, and lowers costs Learn how to implement ideas from the DevOps and Lean Startup movements even in complex, regulated environments

Systems Performance

"International Institute for Analytics"--Dust jacket.

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