

# Systems Performance Enterprise And The Cloud Engl

**GovCloud, Cloud Computing for the Business of Government** Kevin L. Jackson, Don Philpott. 2011 GovCloud - Book Synopsis & Review The Essential Desk Reference and Guide for Managers GovCloud is the book we have all been waiting for. We are all using the term Cloud Computing but till now we did not have a common frame of reference to help us maximize this important construct. IT professionals know you do not build anything without a plan and this book offers the blueprints and guidelines you need in order to accelerate your movement to the cloud. Bob Gourley, Former CTO Defense Intelligence Agency, Founder and CTO of Crucial Point LLC. The United States Government is the world's largest consumer of information technology, spending over \$76 billion annually on more than 10,000 different systems. Fragmentation of systems, poor project execution, and the drag of legacy technology in the Federal Government have presented barriers to achieving the productivity and performance gains found when technology is deployed effectively in the private sectors. All that is about to change as the Obama Administration obliges federal departments to look to Cloud computing to cut costs and solve many of the problems that have plagued IT deployment for decades. The problem, however, is how do federal IT managers and those controlling the budgets go about deciding what is best for them. The answer is GovCloud: Cloud Computing for the Business of Government, a new book written by Kevin Jackson, an acknowledged international expert in this arena. With writer Don Philpott, he has created an easy to understand five step process that explains what cloud computing is all about and what are the best options to meet your particular needs. It discusses in detail all the latest developments in this area from administration requirements to the search for industry-wide standards. Information technology should enable government to better serve the American people. But despite spending more than \$600 billion on information technology over the past decade, the Federal Government has achieved little of the productivity improvements that private industry has realized from IT, said Jackson. Too often, Federal IT projects run over budget, behind schedule, or fail to deliver promised functionality. Many projects use grand design approaches that aim to deliver functionality every few years, rather than breaking projects into more manageable chunks and demanding new functionality every few quarters. In addition, the Federal Government too often relies on large, custom, proprietary systems when light technologies or shared services exist. The book describes the key characteristics of cloud computing and various deployment and delivery models. It contains case studies and best practices, how to set and meet goals, how to implement and use cloud computing and how to make sure it is working. Apart from increased efficiency, one of the major benefits of cloud computing is cost savings and there are worksheets on key performance indicators, return on investment cost and time indicator ratios and savings models. It is packed with practical tips, checklists and unique templates that can be used to design and implement cloud computing to meet agency specific needs. There is also a detailed glossary for those not familiar with cloud computing terms. Whether you are an IT manager tasked with developing an agency-wide cloud computing plan or a senior manager responsible for IT budgets, this is a reference book you cannot afford to be without.

Reviews and Comments from Readers:- I wrote in my book, Enterprise Cloud Computing, In Switzerland, the famous Matterhorn casts a shadow over the town of Zermatt below. The cemetery at the foot of the mountain is a warning to those who would proceed up the steep slopes. Early pioneers who had neither maps nor guides are buried there, along with the primitive tools they thought were up to the task. Today, Swiss law prohibits the inexperienced from climbing the steep slopes without a guide. Today's business and technology professionals tasked with adopting cloud computing should heed the message sent down from the Matterhorn: A guide is needed to survive the journey ahead. Jackson and Philpott's GovCloud is your guide to cloud computing for the business of government. -

Peter Fingar Peter Fingar is a Business Strategy Adviser and Author of Dot.Cloud: The 21st Century Business Platform, and Enterprise Cloud Computing. (www.peterfingar.com) From 375 Cloud Musings since May 2008 to a 244 page book in February 2011, Kevin Jackson and his word processor must never sleep! The table of contents, which is really a taxonomy of Government Cloud Computing, is worth the price of the book alone. I highly recommend this excellent resource for both those new and experienced in this exciting new field. Well done, Kevin! - Brand Nieman Brand L. Niemann recently retired from the U.S. Environmental Protection Agency as a Computer Scientist and XML and Web Services Specialist in the Office of Environmental Information. He has received awards and recognitions for his work from the U.S. EPA, the U.S. Department of the Interior, the US Geological Survey, LOTUS, and ComputerWorld-Smithsonian. A very practical guide and a must-read for every government CIO and CTO. - Bob Flores Bob Flores is the Founder, President, and CEO of Applicology Incorporated, an independent consulting firm specializing in information technology issues. Prior to this, Bob spent 31 years at the Central Intelligence Agency. While at CIA, Bob held various positions in the Directorate of Intelligence, Directorate of Support, and the National Clandestine Service. Toward the end of his career, Bob spent three years as the CIO's Chief Technology Officer where he was responsible for ensuring that the Agency's technology investments matched the needs of its mission. During this time Bob was also the Agency's representative on several government-wide information sharing committees and councils. - Every Federal agency should approach cloud computing with a focus on improving mission execution and extending the value of critical Enterprise investments. 'GovCloud' provides excellent guidance for this important transition. Jody Tedesco, President & CEO, NJVC

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

Enterprise Analytics Thomas H. Davenport. 2013 International Institute for Analytics--Dust jacket.  
Foundations of Software and System Performance Engineering André B. Bondi. 2014-08-08 "If this book had been available to Healthcare.gov's contractors, and they read and followed its life cycle performance processes, there would not have been the enormous problems apparent in that application. In my 40+ years of experience in building leading-edge products, poor performance is the single most frequent cause of the failure or cancellation of software-intensive projects. This book provides techniques and skills necessary to implement performance engineering at the beginning of

a project and manage it throughout the product's life cycle. I cannot recommend it highly enough.”  
-Don Shafer, CSDP, Technical Fellow, Athens Group, LLC  
Poor performance is a frequent cause of software project failure. Performance engineering can be extremely challenging. In *Foundations of Software and System Performance Engineering*, leading software performance expert Dr. André Bondi helps you create effective performance requirements up front, and then architect, develop, test, and deliver systems that meet them. Drawing on many years of experience at Siemens, AT&T Labs, Bell Laboratories, and two startups, Bondi offers practical guidance for every software stakeholder and development team participant. He shows you how to define and use metrics; plan for diverse workloads; evaluate scalability, capacity, and responsiveness; and test both individual components and entire systems. Throughout, Bondi helps you link performance engineering with everything else you do in the software life cycle, so you can achieve the right performance—now and in the future—at lower cost and with less pain. This guide will help you

- Mitigate the business and engineering risk associated with poor system performance
- Specify system performance requirements in business and engineering terms
- Identify metrics for comparing performance requirements with actual performance
- Verify the accuracy of measurements
- Use simple mathematical models to make predictions, plan performance tests, and anticipate the impact of changes to the system or the load placed upon it
- Avoid common performance and scalability mistakes
- Clarify business and engineering needs to be satisfied by given levels of throughput and response time
- Incorporate performance engineering into agile processes
- Help stakeholders of a system make better performance-related decisions
- Manage stakeholders' expectations about system performance throughout the software life cycle, and deliver a software product with quality performance

André B. Bondi is a senior staff engineer at Siemens Corp., Corporate Technologies in Princeton, New Jersey. His specialties include performance requirements, performance analysis, modeling, simulation, and testing. Bondi has applied his industrial and academic experience to the solution of performance issues in many problem domains. In addition to holding a doctorate in computer science and a master's in statistics, he is a Certified Scrum Master.

[Guide to Cloud Computing for Business and Technology Managers](#) Vivek Kale.2014-12-17  
*Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications* unravels the mystery of cloud computing and explains how it can transform the operating contexts of business enterprises. It provides a clear understanding of what cloud computing really means, what it can do, and when it is practical to use. Addressing the primary management and operation concerns of cloudware, including performance, measurement, monitoring, and security, this pragmatic book: Introduces the enterprise applications integration (EAI) solutions that were a first step toward enabling an integrated enterprise Details service-oriented architecture (SOA) and related technologies that paved the road for cloudware applications Covers delivery models like IaaS, PaaS, and SaaS, and deployment models like public, private, and hybrid clouds Describes Amazon, Google, and Microsoft cloudware solutions and services, as well as those of several other players Demonstrates how cloud computing can reduce costs, achieve business flexibility, and sharpen strategic focus Unlike customary discussions of cloud computing, *Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications* emphasizes the key differentiator—that cloud computing is able to treat enterprise-level services not merely as discrete stand-alone services, but as Internet-locatable, composable, and repackagable building blocks for generating dynamic real-world enterprise business processes.

*Application Performance Management (APM) in the Digital Enterprise* Rick Sturm,Carol Pollard,Julie Craig.2017-02-17  
*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.

*Foundations of Software and System Performance Engineering* André B. Bondi.2014-07-05 The absence of clearly written performance requirements is the cause of much confusion and bad software architectures; this book's coverage of performance requirements engineering and domain-specific performance metrics at every stage of the software process addresses the problem.

Application of the principles in this book will considerably mitigate the risks that performance post to the success of a software system and lead to a better quality product with wider acceptance.

[Jakarta EE for Java Developers](#) Rhuan Rocha.2021-12-16 Develop Enterprise Systems on Cloud Infrastructure Using a Rich Java Ecosystem. KEY FEATURES ● Every chapter and concept is illustrated through the use of the Jakarta Project. ● Extensive hands-on demonstration of Jakarta EE specifications and capabilities. ● Practical examples of securing Java applications with Jakarta Security are provided. DESCRIPTION This book provides a practical introduction to Enterprise Java Edition, Jakarta EE, including detailed features and capabilities. Equipped with numerous projects, each chapter demonstrates Jakarta EE capabilities with clean coding. The book starts with an introduction to Jakarta EE and its architecture. This will help to create a project using the Jakarta Servlet and exposure of an HTTP endpoint. The CDI is then used to inject dependencies, work with events asynchronously, and interact with CDI interceptors. Then, in the RESTful style, it can help to create a Jakarta RESTful resource to expose HTTP endpoints. We then investigate the Jakarta Enterprise Bean, which teaches us how to manage transactions and schedule tasks. The Jakarta Persistence is then used to integrate an application into a relational database, and the Jakarta Message is used to create an application using the Message Oriented Middleware (MOM). In terms of security, we use Jakarta Security to secure the endpoint of a Jakarta application. By the end of this book, the reader will be able to set up a Jakarta project and write applications that expose HTTP endpoints, integrate with a database, and deal with authentication and authorization. WHAT YOU WILL LEARN ● Create and use Servlets to build applications. ● Get to know CDI and practice how to create the CDI Interceptor and Decorator. ● Learn to build RESTful services and make use of Jakarta Enterprise Bean in your application. ● Use Jakarta Servlet and Jakarta RESTful to expose HTTP endpoints. ● Create a relational database-integrated application. ● Use authentication and authorization to build a secure application. WHO THIS BOOK IS FOR This book is for Java developers who want to learn how to create a Jakarta project, work with the Jakarta EE specifications, and use it in best practices. AUTHOR BIO Rhuan Rocha is Principal Software Engineer at DigiBee, a Jakarta EE specialist, and Co-founder of Cloud Conference Day. Throughout your career, he has developed many Enterprise Java applications for private companies and governments in Brazil, using Java EE/Jakarta EE and technologies of its ecosystem. Rhuan Rocha is an Open Source contributor and contributed to JNoSQL, RestEasy, TomEE, Quarkus, and others.

*Cloud Control Systems* Magdi S. Mahmoud,Yuanqing Xia.2020-01-14 Cloud Control Systems: Analysis, Design and Estimation introduces readers to the basic definitions and various new developments in the growing field of cloud control systems (CCS). The book begins with an overview of cloud control systems (CCS) fundamentals, which will help beginners to better understand the depth and scope of the field. It then discusses current techniques and developments in CCS, including event-triggered cloud control, predictive cloud control, fault-tolerant and diagnosis cloud control, cloud estimation methods, and secure control/estimation under cyberattacks. This book benefits all researchers including professors, postgraduate students and engineers who are interested in modern control theory, robust control, multi-agents control. Offers insights into the innovative application of cloud computing principles to control and automation systems Provides an overview of cloud control systems (CCS) fundamentals and introduces current techniques and developments in CCS Investigates distributed denial of service attacks, false data injection attacks, resilient design under cyberattacks, and safety assurance under stealthy cyberattacks

**Systems Performance** Brendan Gregg. 2014 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, 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.

**Performance of Cloud Based Solutions. The Impact of Public Cloud, Private Cloud and Hybrid Cloud** Georg Trenovski. 2015-03-27 Research Paper (undergraduate) from the year 2014 in the subject Computer Science - Internet, New Technologies, grade: 2,00, Management Center Innsbruck (Management Center Innsbruck), language: English, abstract: The cloud paradigm introduces a change in visualization of system and data owned by an enterprise. Further, the on service-based sharing of resources such as storage, hardware and applications which are delivered with cloud computing in a total different way has facilitated coherence of the resources and economies of scale through its pay-per-use business model. It is no longer a collection of devices on a physical location and run a particular software program with all the needed data and resources present at a physical location but instead is a system which is geographically distributed with consideration on both application and data. But even when the development of distributed cloud architectures and services are all dealing with the same issues of scalability, elasticity over demand, broad network access, usage measurement, security aspects such as authorization and authentication, and many other concepts related to multitenant services in order to serve a high number of concurrent users over the internet, is it the main goal for companies to find the right solution for their requirements. The right solution can be a public, a private or a hybrid cloud and although the issues are very similar in any of these solutions, it depends further on the degree of potency of one or some issues which are related to different kind of industries and organisations to evaluate the right cloud based approach for a particular company. This means we have to agree that the evolution of a new paradigm requires adaptation in usage patterns and associated functional areas to fully benefit from the paradigm shift.

**Briggs** Barry Briggs, Eduardo Kassner. 2016-01-07 How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

**Designing Distributed Systems** Brendan Burns. 2018-02-20 Without established design patterns to guide them, developers have had to build distributed systems from scratch, and most of these systems are very unique indeed. Today, the increasing use of containers has paved the way for core distributed system patterns and reusable containerized components. This practical guide presents a collection of repeatable, generic patterns to help make the development of reliable distributed systems far more approachable and efficient. Author Brendan Burns—Director of Engineering at Microsoft Azure—demonstrates how you can adapt existing software design patterns for designing and building reliable distributed applications. Systems engineers and application developers will learn how these long-established patterns provide a common language and framework for dramatically increasing the quality of your system. Understand how patterns and reusable components enable the rapid development of reliable distributed systems Use the side-car, adapter, and ambassador patterns to split your application into a group of containers on a single machine Explore loosely coupled multi-node distributed patterns for replication, scaling, and communication between the components Learn distributed system patterns for large-scale batch data processing covering work-queues, event-based processing, and coordinated workflows

**Information and Communication Technology for Competitive Strategies (ICTCS 2020)** M. Shamim Kaiser, Juanying Xie, Vijay Singh Rathore. 2021-07-05 This book contains the best selected research papers presented at ICTCS 2020: Fifth International Conference on Information and Communication Technology for Competitive Strategies. The conference was held at Jaipur, Rajasthan, India during 11–12 December 2020. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics and IT security.

**Algorithms and Architectures for Parallel Processing** Sheng Wen, Albert Zomaya, Laurence T. Yang. 2020-01-21 The two-volume set LNCS 11944-11945 constitutes the proceedings of the 19th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2019, held in Melbourne, Australia, in December 2019. The 73 full and 29 short papers presented were carefully reviewed and selected from 251 submissions. The papers are organized in topical sections on: Parallel and Distributed Architectures, Software Systems and Programming Models, Distributed and Parallel and Network-based Computing, Big Data and its Applications, Distributed and Parallel Algorithms, Applications of Distributed and Parallel Computing, Service Dependability and Security, IoT and CPS Computing, Performance Modelling and Evaluation.

**Digital Economy, Business Analytics, and Big Data Analytics Applications** Saad G. Yaseen. 2022-09-26 This book is about turning data into smart decisions, knowledge into wisdom and business into business intelligence and insight. It explores diverse paradigms, methodologies, models, tools and techniques of the emerging knowledge domain of digitalized business analytics applications. The book covers almost every crucial aspect of applied artificial intelligence in business, smart mobile and digital services in business administration, marketing, accounting, logistics, finance and IT management. This book aids researchers, practitioners and decisions makers to gain enough knowledge and insight on how to effectively leverage data into competitive intelligence.

**GB/T 40212-2021 Translated English of Chinese Standard. (GBT40212-2021, GB/T 40212-2021)** <https://www.chinesestandard.net>. 2021-10-02 This Standard gives the characteristics,

classification and reference architecture (physical access layer, communication layer, base layer, platform layer and application layer) of the cloud service platform for industrial robot. This Standard applies to robot manufacturers, robot integrators and robot users, and provides guidance for them in the process of building and using cloud service platform for industrial robot.

### **Enterprise Resource Planning and Business Intelligence Systems for Information Quality**

Carlo Caserio, Sara Trucco. 2018-04-13 This book analyses the role of Enterprise Resource Planning (ERP) and Business Intelligence (BI) systems in improving information quality through an empirical analysis carried out in Italy. The study begins with a detailed examination of ERP features that highlights the advantages and disadvantages of ERP adoption. Critical success factors for ERP implementation and post-implementation are then discussed, along with the capabilities of ERP in driving the alignment between management accounting and financial accounting information. The study goes on to illustrate the features of BI systems and to summarize companies' needs for BI. Critical success factors for BI implementation are then presented, along with the BI maturity model and lifecycle. The focus of the research entails a detailed empirical analysis in the Italian setting designed to investigate the role played by ERP and BI systems in reducing information overload/underload and improving information quality by influencing the features of information flow. The practical and theoretical implications of the study are discussed and future avenues of research are suggested. This book will be of value for all those who have an interest in the capacities of ERP and BI systems to enhance business information quality.

**Service Virtualization** John Michelsen, Jason English. 2013-02-01 Software drives innovation and success in today's business world. Yet critical software projects consistently come in late, defective, and way over budget. So what's the problem? Get ready for a shock, because the answer to the problem is to avoid reality altogether. A new IT practice and technology called Service Virtualization (SV) is industrializing the process of simulating everything in our software development and test environments. Service Virtualization is a method to emulate the behavior of components in heterogeneous applications such as Service-Oriented Architectures (SOA). Yes, fake systems are even better than the real thing for most of the design and development lifecycle, and SV is already making a huge impact at some of the world's biggest companies. *Service Virtualization: Reality Is Overrated* is the first book to present this powerful new method for simulating the behavior, data, and responsiveness of specific components in complex applications. By faking out dependency constraints, SV delivers dramatic improvements in speed, cost, performance, and agility to the development of enterprise application software. Writing for executive and technical readers alike, SV inventor John Michelsen and Jason English capture lessons learned from the first five years of applying this game-changing practice in real customer environments. Other industries—from aviation to medicine—already understand the power of simulation to solve real-world constraints and deliver new products to market better, faster, and cheaper. Now it's time to apply the same thinking to our software. For more information, see [servicevirtualization.com](http://servicevirtualization.com).

**BPF Performance Tools** Brendan Gregg. 2019-11-27 Use BPF Tools to Optimize Performance, Fix Problems, and See Inside Running Systems BPF-based performance tools give you unprecedented visibility into systems and applications, so you can optimize performance, troubleshoot code, strengthen security, and reduce costs. *BPF Performance Tools: Linux System and Application Observability* is the definitive guide to using these tools for observability. Pioneering BPF expert Brendan Gregg presents more than 150 ready-to-run analysis and debugging tools, expert guidance on applying them, and step-by-step tutorials on developing your own. You'll learn how to analyze CPUs, memory, disks, file systems, networking, languages, applications, containers, hypervisors, security, and the kernel. Gregg guides you from basic to advanced tools, helping you generate deeper, more useful technical insights for improving virtually any Linux system or application. • Learn essential tracing concepts and both core BPF front-ends: BCC and bpftrace • Master 150+ powerful BPF tools, including dozens created just for this book, and available for download • Discover practical strategies, tips, and tricks for more effective analysis • Analyze compiled, JIT-compiled, and interpreted code in multiple languages: C, Java, bash shell, and more • Generate

metrics, stack traces, and custom latency histograms • Use complementary tools when they offer quick, easy wins • Explore advanced tools built on BPF: PCP and Grafana for remote monitoring, eBPF Exporter, and kubectl-trace for tracing Kubernetes • Foreword by Alexei Starovoitov, creator of the new BPF Performance Tools will be an indispensable resource for all administrators, developers, support staff, and other IT professionals working with any recent Linux distribution in any enterprise or cloud environment.

Computer Performance Engineering Nigel Thomas.2012-01-28 This book constitutes the refereed proceedings of the 8th European Performance Engineering Workshop, EPEW 2011, held in The English Lake District in October 2011. The 16 regular papers and 6 poster presentations papers presented together with 2 invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on performance-oriented design and analysis methods, model checking and validation, simulation techniques and experimental design, performability modelling and performance and power consumption tradeoffs.

*The Enterprise Cloud* James Bond.2015-05-19 Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

*Modern Oracle Enterprise Architecture* Javid Ur Rahman.2021-09-17 A comprehensive innovative product handbook for managers designing and deploying enterprise business solutions. **KEY FEATURES** ● Covers proven technical approaches in migrating your enterprise systems to Oracle Cloud Computing. ● A handbook for decision-makers on using Oracle Product Suite for digital transformation. ● Understand the Oracle product benefits and leveraging capital investment to avail great measurable ROI and TCO. **DESCRIPTION** The Oracle Enterprise Architecture Framework emerges from the on-site legacy to current cloud native and is called Modern Oracle Enterprise Architecture. It aims to clear the path for critical business application workloads in the field of database and the application architecture to hybrid and cloud applications. This is a very handy book for chief decision-makers and professional cloud solution engineers. As the current cloud computing services are agile and pay-as-you-go (PAYG) based subscription including multi-year cost model thus a more agile approach is covered throughout the book. This book will help readers to achieve their database and application system solution architecture career objectives more quickly without spending years. The readers can prevent committing errors, recovering from them, and learning things the hard way. This book lists critical attributes and methods to develop, including improvement of business-friendly case formulation. It also includes the development of a solution approach in creative and innovative technological breakthroughs developed by product companies over the last three decades. **WHAT YOU WILL LEARN** ● 360-degree view of Oracle database and



application products. ● Transition to hybrid cloud identity services via Oracle Identity Cloud platform. ● Understand and implement Oracle accessibility and architecture observability. ● Get to know the benefits of leveraging Oracle Autonomous Shared and dedicated services. ● Manage, automate, and upgrade the cloud databases using Oracle fleet management. ● Automate sitewide failover and switchover operations using Oracle siteguard. WHO THIS BOOK IS FOR This book is for decision-makers, business architects, system development teams, technological professionals and product teams who want to use the Oracle stack's hidden capabilities to develop, manage and keep enhancing enterprise systems. TABLE OF CONTENTS 01. Artificial Intelligence for Cloud Computing 02. Business Benefits of Migrating and Operating on Oracle Cloud 03. Move and Optimize the Cost for Oracle E-Business Suite on Cloud Compute 04. Contemplating IaaS, PaaS, and SaaS Migration for On-Premise Legacy Systems 05. Oracle Autonomous Dedicated for Oracle E-Business Suite Customers 06. Benefits of Oracle PeopleSoft with Autonomous Database Dedicated and Shared 07. Oracle Autonomous Dedicated for Oracle E-Business Suite Customers 08. Oracle Agile Maximum-Security Architecture (AMSA) 09. Agile Accessibility and Observability Architecture Agile AOA (AAOA) 10. Fleet Management for On-Premises and Cloud (DBaaS and IaaS) Database Stack 11. Identity transition from Identity Manager (IDM) to Universal Directory (OUD) and Identity Cloud Suite 12. Decision Analysis Resolution (DAR) for Oracle E-Business Suite on Cloud Compute 13. Hidden Jewel on Oracle Crown. Oracle Enterprise Manager Site Guard Use Cases: 14. Case Study One Oracle E-Business Suite Migration to OCI with Business Continuity Site 15. Case Study Two. Oracle E-Business Suite Migration to OCI with Business Continuity Site 16. Case Study Three. Oracle Universal Directory Installation and Configuration

**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 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.

*Performance Measurement and Management for Engineers* Michela Arnaboldi, Giovanni Azzone, Marco Giorgino.2014-09-08 Performance Measurement and Management for Engineers introduces key concepts in finance, accounting, and management to project managers who have engineering backgrounds. It focuses these basic concepts on issues of measuring and managing enterprise value. Thus, after defining enterprise value, the book begins by explaining the ways and means of measurement. It then takes up financial measurement, describing and analyzing the typologies of financial indicators while illustrating their advantages and disadvantages. After focusing on measuring enterprise value, the second section takes up managing that value. Like the first, it pursues a double view: using indicators for internal control while employing them to analyze other companies. If engineering project managers possess a source of quantitative and qualitative information about business management, Performance Measurement and Management for Engineers will help them increase their contributions to the business. Explains how main performance indicators are related to the value of the company Reveals how to assess the financial needs of companies in relation to their financial goals and mechanisms (e.g., equity, debt, and hybrid) Describes key information and indicators for assessing the ability of enterprises to create

value across time Indicates the profitability sources of different business units

*Advanced Computing and Systems for Security* Rituparna Chaki,Agostino Cortesi,Khalid Saeed,Nabendu Chaki.2019-08-14 This book features extended versions of selected papers that were presented and discussed at the 6th International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2019) held in Kolkata, India on 12–13 March, 2019. Organized by the Departments of Computer Science & Engineering and A. K. Choudhury School of Information Technology, both from the University of Calcutta, the symposium's international partners were Ca' Foscari University of Venice, Italy and Bialystok University of Technology, Poland. The chapters cover topics such as biometrics, image processing, pattern recognition, algorithms, cloud computing, wireless sensor networks and security systems, reflecting the various symposium sessions.

*Cloud Computing* Lizhe Wang,Rajiv Ranjan,Jinjun Chen,Boualem Benatallah.2017-12-19 Cloud computing has created a shift from the use of physical hardware and locally managed software-enabled platforms to that of virtualized cloud-hosted services. Cloud assembles large networks of virtual services, including hardware (CPU, storage, and network) and software resources (databases, message queuing systems, monitoring systems, and load-balancers). As Cloud continues to revolutionize applications in academia, industry, government, and many other fields, the transition to this efficient and flexible platform presents serious challenges at both theoretical and practical levels—ones that will often require new approaches and practices in all areas. Comprehensive and timely, *Cloud Computing: Methodology, Systems, and Applications* summarizes progress in state-of-the-art research and offers step-by-step instruction on how to implement it. Summarizes Cloud Developments, Identifies Research Challenges, and Outlines Future Directions Ideal for a broad audience that includes researchers, engineers, IT professionals, and graduate students, this book is designed in three sections: Fundamentals of Cloud Computing: Concept, Methodology, and Overview Cloud Computing Functionalities and Provisioning Case Studies, Applications, and Future Directions It addresses the obvious technical aspects of using Cloud but goes beyond, exploring the cultural/social and regulatory/legal challenges that are quickly coming to the forefront of discussion. Properly applied as part of an overall IT strategy, Cloud can help small and medium business enterprises (SMEs) and governments in optimizing expenditure on application-hosting infrastructure. This material outlines a strategy for using Cloud to exploit opportunities in areas including, but not limited to, government, research, business, high-performance computing, web hosting, social networking, and multimedia. With contributions from a host of internationally recognized researchers, this reference delves into everything from necessary changes in users' initial mindset to actual physical requirements for the successful integration of Cloud into existing in-house infrastructure. Using case studies throughout to reinforce concepts, this book also addresses recent advances and future directions in methodologies, taxonomies, IaaS/SaaS, data management and processing, programming models, and applications.

**Performance and Capacity Themes for Cloud Computing** Elisabeth Stahl,Andrea Corona,Frank De Gilio,Marcello Demuro,Ann Dowling,Lydia Duijvestijn,Avin Fernandes,Dave Jewell,Bharathraj Keshavamurthy,Shmuel Markovits,Chandrakandh Mouleeswaran,Shawn Raess,Kevin Yu,IBM Redbooks.2013-03-20 This IBM® Redpaper™ is the second in a series that addresses the performance and capacity considerations of the evolving cloud computing model. The first Redpaper publication (*Performance Implications of Cloud Computing*, REDP-4875) introduced cloud computing with its various deployment models, support roles, and offerings along with IT performance and capacity implications associated with these deployment models and offerings. In this redpaper, we discuss lessons learned in the two years since the first paper was written. We offer practical guidance about how to select workloads that work best with cloud computing, and about how to address areas, such as performance testing, monitoring, service level agreements, and capacity planning considerations for both single and multi-tenancy environments. We also provide an example of a recent project where cloud computing solved current business needs (such as cost reduction, optimization of infrastructure utilization, and more efficient systems management and reporting capabilities) and how the solution addressed performance and capacity challenges. We conclude

with a summary of the lessons learned and a perspective about how cloud computing can affect performance and capacity in the future.

*Managing Data in Motion* April Reeve.2013-02-26 *Managing Data in Motion* describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best practices for managing the passage of data between computer systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the data in motion in organizations is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data integration, and cloud and big data applications are just a few of the challenges facing organizations and businesses today. *Managing Data in Motion* tackles these and other topics in a style easily understood by business and IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types Explains, in non-technical terms, the architecture and components required to perform data integration Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of Big Data

**Systems Performance** Brendan Gregg.2020-12-09 *Systems Performance, Second Edition*, covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the primary example. A deep understanding of these tools and techniques is critical for developers today. Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end-user experience and lower costs, especially for cloud computing environments that charge by the OS instance. Systems performance expert and best-selling author Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to speed even if they have never analyzed performance before. Gregg then provides in-depth explanations of the latest tools and techniques, including extended BPF, and shows how to get the most out of cloud, web, and large-scale enterprise systems. Key topics covered include Hardware, kernel, and application internals, and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU, memory, file system, disk, and networking usage Sophisticated profiling and tracing with perf, Ftrace, and BPF (BCC and bpftrace) Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up-to-date coverage of Linux operating systems and environments, *Systems Performance, Second Edition*, also addresses issues that apply to any computer 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 details.

**Economics of Grids, Clouds, Systems, and Services** Jörn Altmann,Kurt Vanmechelen,Omer F. Rana.2014-12-23 This book constitutes the refereed proceedings of the 11th International Conference on Economics of Grids, Clouds, Systems, and Services, GECON 2014, held in Cardiff, UK, in September 2014. The 8 revised full papers and 7 paper-in-progress presented were carefully reviewed and selected from 24 submissions. The presentation sessions that have been set up are: Cloud Adoption, Work in Progress on Market Dynamics, Cost Optimization, Work in Progress on Pricing, Contracts and Service Selection and Economic Aspects of Quality of Service.

*Enterprise Cloud Computing for Non-Engineers* Stephan Jones, Frank M. Groom.2018 A CRC title, part of the Taylor & Francis imprint, a member of the Taylor & Francis Group, the academic division of T&F Informa plc.

**Cloud Enterprise Architecture** Pethuru Raj.2012-10-24 Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

**DTrace** Brendan Gregg,Jim Mauro.2011-03-18 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, 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.

*Patterns of Enterprise Application Architecture* Martin Fowler.2012-03-09 The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. *Patterns of Enterprise Application Architecture* is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise

applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

Quality Web Systems Elfriede Dustin, Jeff Rashka, Douglas McDiarmid. 2002 Overview of web systems and technologies. Performance and scalability. Usability and accessibility ...

Advances in Self-healing Systems Monitoring and Data Processing Igor Ruban, Andriy Kovalenko, Vitaly Levashenko. 2022-03-02 This book presents the systematized research, development and improvement of methods in self-healing communication and control systems. The book presents new models and methods of data processing, focused on the specifics of self-healing systems. The goal is to equip the reader with the necessary knowledge about trends in monitoring and detecting failures, modelling processes and methods of data processing in self-healing communication and control systems.

**Systems Performance** Brendan Gregg. 2023

**On Top of the Cloud** Hunter Muller. 2011-12-21 Praise for ON TOP OF THE CLOUD 21st-century CIOs have a dual responsibility: driving down costs and creating new business value. Managing this seeming dichotomy is the domain of top business executives everywhere, and CIOs everywhere are learning to step it up. The original research contained in Hunter's book serves as a practical road map for IT strategy in today's ultra-competitive markets. —Randy Spratt, EVP, CIO, and CTO, McKesson Corporation This is a thoughtfully written book, and the timing is perfect. Hunter really understands the challenges confronting transformational CIOs in today's markets, and he captures the choices they face as they work to create value for their organizations while driving down the costs of doing business in the modern world. The wealth of information contained in this book makes it truly valuable to career IT leaders and future CIOs alike. —Mark Polansky, Senior Client Partner and Managing Director, Information Technology Center of Expertise, Korn/Ferry International, North America The cloud involves more than just technology. It's really more of a new business model. Hunter grasps the central truth about cloud computing, and that's why this is a valuable book. Hunter understands the issues and conveys them in a conversational tone that is truly refreshing. —Dave Smoley, SVP and CIO, Flextronics International You may think this is a book about technology; well it's not. It's a book about leadership, packed with stories about real leaders finding new customers and markets, transforming the way their organizations work, and adding value—with the next generation of technology as the enabler. The cloud holds real potential. Read this book to see how top CIOs are positioning their companies. —Tony Leng, Managing Director, Diversified Search Hunter has the unique ability to distill the best thinking of world-class CIOs into something you can act on. If you are a technology executive trying to find the right balance between generating business value and managing IT costs, this is the right book for you. On Top of the Cloud will be especially useful for transformational CIOs tasked with developing their company's strategies for technology-driven business growth. —Randy Krotowski, CIO, Global Upstream, Information Technology, Chevron Corporation

*Performance Modeling and Design of Computer Systems* Mor Harchol-Balter. 2013-02-18 Written with computer scientists and engineers in mind, this book brings queueing theory decisively back to computer science.

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