

Scaling for E-Business

**Technologies, Models, Performance,
and Capacity Planning**



- Avoid losing customers due to site crashes
- Performance modeling and capacity planning for e-business infrastructure
- Build and analyze customer behavior models
- Plan your e-business site to avoid frequent upgrades and migrations

Daniel A. Menascé
Virgílio A. E. Almeida

Foreword by Jim Gray

Microsoft Research and 1995 ACM Turing Award Recipient

Scaling For E Business Technologies Models Performance And Capacity Planning

Langhammer, Michael



Scaling For E Business Technologies Models Performance And Capacity Planning:

Scaling for E-business Daniel A. Menascé, Virgilio A. F. Almeida, 2000 This book presents analysis techniques for quantifying and projecting every element of your e business site s performance and planning for the capacity you need

Web Engineering David Lowe, Martin Gaedke, 2011-04-06 Over the last few years Web Engineering has begun to gain mainstream acceptance within the software engineering IT and related disciplines In particular both researchers and practitioners are increasingly recognizing the unique characteristics of Web systems and what these characteristics simply in terms of the approaches we take to Web systems development and deployment in practice A scan of the publications in related conference proceedings and journals highlights the diversity of the discipline areas which contribute to both the richness and the complexity of Web Engineering The 5th International Conference on Web Engineering ICWE2005 held in Sydney Australia extends the traditions established by the earlier conferences in the series ICWE2004 in Munich Germany ICWE2003 in Oviedo Spain ICWE2002 in Santa Fe Argentina and ICWE2001 in Cáceres Spain Not only have these conferences helped disseminate cutting edge research within the field of Web Engineering but they have also helped define and shape the discipline itself The program we have put together for ICWE2005 continues this evolution Indeed we can now begin to see the maturing of the field For possibly the first time there was very little debate within the Program Committee about which papers were in and out of scope and much more debate as to the each papers contributions to the field Foundations of Software and System Performance Engineering André B. Bondi, 2015 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 pose to the success of a software system and lead to a better quality product with wider acceptance **Fundamentals of Performance**

Evaluation of Computer and Telecommunication Systems Mohammed S. Obaidat, Nouredine A. Boudriga, 2010-01-26 The only singular all encompassing textbook on state of the art technical performance evaluation **Fundamentals of Performance Evaluation of Computer and Telecommunication Systems** uniquely presents all techniques of performance evaluation of computers systems communication networks and telecommunications in a balanced manner Written by the renowned Professor Mohammad S Obaidat and his coauthor Professor Nouredine Boudriga it is also the only resource to treat computer and telecommunication systems as inseparable issues The authors explain the basic concepts of performance evaluation applications performance evaluation metrics workload types benchmarking and characterization of workload This is followed by a review of the basics of probability theory and then the main techniques for performance evaluation namely measurement simulation and analytic modeling with case studies and examples Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach Reviews measurement tools

benchmark programs design of experiments traffic models basics of queueing theory and operational and mean value analysis Covers the techniques for validation and verification of simulation as well as random number generation random variate generation and testing with examples Features numerous examples and case studies as well as exercises and problems for use as homework or programming assignments Fundamentals of Performance Evaluation of Computer and Telecommunication Systems is an ideal textbook for graduate students in computer science electrical engineering computer engineering and information sciences technology and systems It is also an excellent reference for practicing engineers and scientists

Large Scale Management of Distributed Systems Radu State, 2006-10-12 This book constitutes the refereed proceedings of the 17th IFIP IEEE International Workshop on Distributed Systems Operations and Management DSOM 2006 held in Dublin Ireland in October 2006 in the course of the 2nd International Week on Management of Networks and Services Manweek 2006 The 21 revised full papers and four revised short papers presented were carefully reviewed and selected from 85 submissions

Business Modeling and Software Design Boris Shishkov, 2012-04-23 This book contains the extended and revised versions of eight of the ten full papers out of 58 submissions presented at the First International Symposium on Business Modeling and Software Design BMSD 2011 held in Sofia Bulgaria The theme of BMSD 2011 was Business Models and Advanced Software Systems and the related scientific areas of interest were business models and requirements business models and services business models and software and information systems architecture

Automated Coevolution of Source Code and Software Architecture Models Langhammer, Michael, 2019-08-23

Mobile Computing and Wireless Communications Amjad Umar, 2004 This book suitable for IS IT courses and self study presents a comprehensive coverage of the technical as well as business management aspects of mobile computing and wireless communications Instead of one narrow topic this classroom tested book covers the major building blocks mobile applications mobile computing platforms wireless networks architectures security and management of mobile computing and wireless communications Numerous real life case studies and examples highlight the key points The book starts with a discussion of m business and m government initiatives and examines mobile computing applications such as mobile messaging m commerce M CRM M portals M SCM mobile agents and sensor applications The role of wireless Internet and Mobile IP is explained and the mobile computing platforms are analyzed with a discussion of wireless middleware wireless gateways mobile application servers WAP i mode J2ME BREW Mobile Internet Toolkit and Mobile Web Services The wireless networks are discussed at length with a review of wireless communication principles wireless LANs with emphasis on 802.11 LANs Bluetooth wireless sensor networks UWB Ultra Wideband cellular networks ranging from 1G to 5G wireless local loops FSO Free Space Optics satellites communications and deep space networks The book concludes with a review of the architectural security and management support issues and their role in building deploying and managing wireless systems in modern settings

Intelligent Virtual World: Technologies And Applications In Distributed Virtual Environment Timothy K

Shih, Paul P Wang, 2004-07-21 In recent years we have witnessed an explosive growth in multimedia computing communication and applications This revolution is transforming the way people live work and interact with each other and is impacting the way business government services education entertainment and health care operate This important book summarizes recent research topics focusing on four major areas 1 intelligent content based information retrieval and virtual world 2 quality of services of multimedia data 3 intelligent techniques for distance education and 4 intelligent agents for e commerce This book has been selected for coverage in CC Engineering Computing Technology Index to Scientific Book Contents ISBC *The Internet Encyclopedia* Hossein Bidgoli, 2004 Publisher Description *Cost Accounting for Shared IT Infrastructures* Reinhard Brandl, 2008-08-21 During the past few years determining the value of IT has ranked high on the agenda of IT managers and Chief Information Officers CIOs The rather broad and abstract topic has been intensively discussed in the Information Systems literature for many years It turns into a very tangible problem in the field of IT cost accounting Nowadays corporate information systems are distributed systems A detailed measurement of resource demands of IT services on a distributed IT infrastructure and respective accounting and cost allocation turns out to be very expensive and impractical in most cases The large proportion of indirect costs and the difficulty of finding adequate allocation rates are a significant problem in practice regularly leading to free rider problems This problem has largely been ignored in the academic literature so far Dr Brandl proposes a method to derive estimators for the resource demand of service requests in a distributed IT infrastructure This estimator is based on a set of load tests and respective measurements as they are often performed during the deployment phase of new information systems Cost allocation keys can now be determined based on the number of service invocations per user or per department and the respective estimators While these measurements provide a lean method for the determination of usage based cost allocation keys it is not obvious that the estimators have sufficient accuracy in particular concerning different types of services and volatile workloads *Modeling and Simulation of Computer Networks and Systems* Faouzi Zarai, Petros Nicopolitidis, 2015-04-21 Modeling and Simulation of Computer Networks and Systems Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems It focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks It describes methodologies for modeling and simulation of new generations of wireless and mobile networks and cloud and grid computing systems Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss Important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobile networks especially as they relate to next generation wireless networks Methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including mobility congestion quality of service security and more Modeling and Simulation of

Computer Networks and Systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation Discusses important and emerging topics in computer networks and Systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more

Performance by Design Daniel A. Menascé, Virgilio A. F. Almeida, Larry Dowdy, 2004 Practical real world solutions are given to potential problems covering the entire system life cycle This book describes how to map real life systems databases data centers and e commerce applications into analytic performance models The authors elaborate upon these models and use them to help the reader better understand performance issues

On the Move to Meaningful Internet Systems: OTM 2009 Workshops Robert Meersman, Pilar Herrero, Tharam Dillon, 2009-11-06 Internet based information systems the second covering the large scale in gration of heterogeneous computing systems and data resources with the aim of providing a global computing space Each of these four conferences encourages researcher to treat their respective topics within a framework that incorporates jointly a theory b conceptual design and development and c applications in particular case studies and industrial solutions Following and expanding the model created in 2003 we again solicited and selected quality workshop proposals to complement the more archival nature of the main conferences with research results in a number of selected and more avant garde areas related to the general topic of Web based distributed computing For instance the so called Semantic Web has given rise to several novel research areas combining linguistics information systems technology and artificial intelligence such as the modeling of legal regulatory systems and the ubiquitous nature of their usage We were glad to see that ten of our earlier successful workshops ADI CAMS EI2N SWWS ORM OnToContent MONET SEMELS COMBEK IWSSA re appeared in 2008 with a second third or even fth edition sometimes by alliance with other newly emerging workshops and that no fewer than three brand new independent workshops could be selected from proposals and hosted ISDE ODIS and Beyond SAWSDL Workshop diences productively mingled with each other and with those of the main conferences and there was considerable overlap in authors

Web Engineering San Murugesan, Yogesh Deshpande, 2001-04-26 This book gives a unique account of the emerging field of Web engineering by presenting 25 thoroughly reviewed papers drawn from two recent workshops on the topic together with introductory and motivating surveys and a list of Web engineering resources in chapters on Web engineering introduction and perspectives Web based system development process and methodology Managing information on the Web Development tools skills and case studies Performance testing and Web metrics Web maintenance and reuse The book will appeal equally to researchers students professionals and practitioners in industry interested in developing

maintaining and using advanced Web based systems and applications Breakthrough Perspectives in Network and Data Communications Security, Design and Applications Bose, Indranil, 2008-12-31 Addresses key issues and offers expert viewpoints into the field of network and data communications Presents research articles that investigate the most significant issues in network and data communications *The Internet Encyclopedia, Volume 1 (A - F)* , 2004-11-11 The Internet Encyclopedia in a 3 volume reference work on the internet as a business tool IT platform and communications and commerce medium Software Applications: Concepts, Methodologies, Tools, and Applications Tiako, Pierre F., 2009-03-31 Includes articles in topic areas such as autonomic computing operating system architectures and open source software technologies and applications Designing Data-Intensive Web Applications Stefano Ceri, Piero Fraternali, Aldo Bongio, Marco Brambilla, Sara Comai, Maristella Matera, 2003-01-04 The most prominent Web applications in use today are data intensive Scores of database management systems across the Internet access and maintain large amounts of structured data for e commerce on line trading banking digital libraries and other high volume sites Developing and maintaining these data intensive applications is an especially complex multi disciplinary activity requiring all the tools and techniques that software engineering can provide This book represents a breakthrough for Web application developers Using hundreds of illustrations and an elegant intuitive modeling language the authors all internationally known database researchers present a methodology that fully exploits the conceptual modeling approach of software engineering from idea to application Readers will learn not only how to harness the design technologies of relational databases for use on the Web but also how to transform their conceptual designs of data intensive Web applications into effective software components A fully self contained introduction and practitioner s guide suitable for both technical and non technical members of staff as well as students A methodology development process and notation WebML based on common practice but optimized for the unique challenges of high volume Web applications Completely platform and product independent even the use of WebML is optional Based on well known industry standards such as UML and the Entity Relationship Model Enhanced by its own Web site <http://www.webml.org> containing additional examples papers teaching materials developers resources and exercises with solutions

Scalable and Secure Internet Services and Architecture Cheng-Zhong Xu, 2005-06-10 Scalable and Secure Internet Services and Architecture provides an in depth analysis of many key scaling technologies Topics include server clusters and load balancing QoS aware resource management server capacity planning Web caching and prefetching P2P overlay network mobile code and security and mobility support for adaptive grid computi

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