



A Capacity Planning Process For Performance And

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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.

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 the 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 [Linking Community Visioning and Highway Capacity Planning](#) ,2012 The purpose of SHRP 2 project C08 Community Visioning Approach to Support the SHRP 2 Collaborative Decision Making Framework for Additions to Highway Capacity was to help transportation agency practitioners assess the possibilities of community visioning efforts identify practical steps and activities when engaging in visioning and establish links between vision outcomes and transportation planning and project development processes To these ends this research presents a model the Vision Guide or the preparation creation and implementation of a visioning process A companion web tool was also developed SHRP 2 Report S2 C08 RR 1 Linking Community Visioning and Highway Capacity Planning is available as a PDF and through the TRB bookstore The appendices which include case studies and a collection of resources were published as a separate document S2 C08 RW 2 and are available only as a PDF The Vision Guide is connected to the transportation planning and project development processes identified in related SHRP 2 Capacity research and presented in the Decision Guide structure on the website Transportation for Communities Advancing Projects through Partnership TCAPP found at transportationforcommunities.com Publisher s description **The Art of Capacity Planning** John Allspaw,2008-09-23 Success on the web is measured by usage and growth Web based companies live or die by the ability to scale their infrastructure to accommodate increasing demand This book is a hands on and practical guide to planning for such growth with many techniques and considerations to help you plan deploy and manage web application infrastructure The Art of Capacity Planning is written by the manager of data operations for the world famous photo sharing site Flickr.com now owned by Yahoo John Allspaw combines personal anecdotes from many phases of Flickr s growth with insights from his colleagues in many other industries to give you solid guidelines for measuring your growth predicting trends and making cost effective preparations Topics include Evaluating tools for measurement and deployment Capacity analysis and prediction for storage database and application servers Designing architectures to easily add and measure capacity Handling sudden spikes Predicting exponential and explosive growth How cloud services such as EC2 can fit into a capacity strategy In this book Allspaw draws on years of valuable experience starting from the days when Flickr was relatively small and had to deal with the typical growth pains and cost performance trade offs of a typical company with a Web presence The advice he offers in The Art of Capacity Planning will not only help you prepare for explosive growth it will save you tons of grief *Linux Performance Tuning and Capacity Planning* Jason Fink,Matthew Sherer,2002 Covering topics from analysis tools to kernel tuning to capacity management this book offers a single point of reference for what you need to know Anyone who has ever had to speed existing operations or project usage patterns for future loads knows that tracking down the relevant information can be a difficult task That s why this book has been written it pulls together all of this knowledge saving countless hours of what might otherwise be wasted research time [The Internet Encyclopedia](#) Hossein Bidgoli,2004 Publisher Description **An Introduction to Capacity Planning** LeeRoy Bronner,1977 **Capacity Planning Implementation** LeeRoy

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