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KEY=PERFORMANCE - BAILEY TANIYA

NETWORK APPLICATION PERFORMANCE ANALYSIS: HERO'S GUIDE TO TROUBLESHOOTING SLOW TRANSACTIONS

Dynatrace This guide presents a repeatable methodology for troubleshooting poorly performing applications. It is designed to help the network analyst focus on key network-visible behaviors that influence application performance, with the goal of identifying exactly where and why transaction delays occur—without the distraction of costly red herrings. In many cases, the methodology presented here is applied as a drill-down or deep-dive analysis from a symptom or fault domain identified by a complementary application or network monitoring solution, especially where ambiguity is unacceptable. In other cases it is applied independently, where performance problems may remain invisible to or undiagnosable by monitoring solutions. It is designed to address typical web or client/server business applications—the types where poor performance results in user complaints, diminished productivity and lost revenue opportunities. Perhaps most importantly, it highlights the tight interaction between network conditions, server configurations and application behaviors, understanding the critical importance of effective collaboration between network, system and application teams. The guide includes relevant TCP, network and application background, and while it references Dynatrace Network Analyzer as the tool example, the guide will be useful even without the product. I trust you will find this book useful and hope you enjoy reading it. Please feel free to contact me with questions, corrections, concerns, anecdotes, or suggestions. Gary Kaiser

A COMPUTER AND COMMUNICATIONS NETWORK PERFORMANCE ANALYSIS PRIMER

Prentice Hall

ALGORITHMS FOR NEXT GENERATION NETWORKS

Springer Science & Business Media Data networking now plays a major role in everyday life and new applications continue to appear at a blinding pace. Yet we still do not have a sound foundation for designing, evaluating and managing these networks. This book covers topics at the intersection of algorithms and networking. It builds a complete picture of the current state of research on Next Generation Networks and the challenges for the years ahead. Particular focus is given to evolving research initiatives and the architecture they propose and implications for networking. Topics: Network design and provisioning, hardware issues, layer-3 algorithms and MPLS, BGP and Inter AS routing, packet processing for routing, security and network management, load balancing, oblivious routing and stochastic algorithms, network coding for multicast, overlay routing for P2P networking and content delivery. This timely volume will be of interest to a broad readership from graduate students to researchers looking to survey recent research its open questions.

RESOURCES IN EDUCATION

INTERNET TOMOGRAPHY

AN INTRODUCTION TO CONCEPTS, TECHNIQUES, TOOLS AND APPLICATIONS

Cambridge Scholars Publishing Internet tomography, introduced from basic principles through to techniques, tools and applications, is the subject of this book. The design of Internet Tomography Measurement Systems (ITMS) aimed at mapping the Internet performance profile spatially and temporally over paths between probing stations is a particular focus. The Internet Tomography Measurement System design criteria addressed include: • Minimally-invasive, independent and autonomous, active or passive measurement; • Flexibility and scalability; • Capability of targeting local, regional and global Internet paths and underlying IP networks; • Compliance with the standardised performance methodologies and quality of service (QoS) metrics such as those of the Internet Engineering Task Force's IP Performance Metrics Working Group. The book also features: • The use of Internet tomography measurement in modelling support, through network simulation and emulation, for real network and service design and analysis, and new service deployment; • The exploration of spatial and temporal Internet performance variations by means of scenario-based analysis using real-time Internet performance data; • Aspects of Internet tomography in next generation wireless network - wireless NGN - architectures; • The role of ITMS in Service Level Agreement design, implementation and compliance.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

NETWORK WORLD

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BUILDING A SUCCESSFUL AMBULATORY CARE PRACTICE

A COMPLETE GUIDE FOR PHARMACISTS

ASHP Let ASHP's new book be your blueprint to a thriving ambulatory care practice, whether it's health-system, physician, or community based. Get comprehensive, practical guidance on all your questions. Topics include: • How do I write a business plan? • What do I need to do to manage risk and liability? • Why do we need a marketing strategy? • Who handles reimbursements? • What credentials do we need? Plus: A companion web toolkit gives you all the help and templates you need to get going.

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FOOLS, KNAVES AND HEROES

GREAT POLITICAL SHORT STORIES

DIANE Publishing

CYBER TERRORISM: POLITICAL AND ECONOMIC IMPLICATIONS

POLITICAL AND ECONOMIC IMPLICATIONS

IGI Global Cyber Terrorism: Political and Economic Implications is a cyber terrorism brief that outlines many of the recent terrorist activities, political objectives, and their use of cyberspace. Much of this book is dedicated to illustrating the use of the global information infrastructure by terrorists for the communication and coordination of distributed terrorist cells, the gathering of target intelligence, and the use of cyber criminal activities as a force multiplier for both physical attacks and infrastructure destabilization. This book identifies the underlying technologies of the global information infrastructure as a means for presenting how critical this emerging domain has become. It then discusses the current attack methods and lays out a series of scenarios for key industry sectors. Lastly, Cyber Terrorism: Political and Economic Implications puts forward prevention and response policies for reducing cyber terrorism activities in the context of traditional information security objectives.

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ZERO TRUST NETWORKS

BUILDING SECURE SYSTEMS IN UNTRUSTED NETWORKS

"O'Reilly Media, Inc." The perimeter defenses guarding your network perhaps are not as secure as you think. Hosts behind the firewall have no defenses of their own, so when a host in the "trusted" zone is breached, access to your data center is not far behind. That's an all-too-familiar scenario today. With this practical book, you'll learn the principles behind zero trust architecture, along with details necessary to implement it. The Zero Trust Model treats all hosts as if they're internet-facing, and considers the entire network to be compromised and hostile. By taking this approach, you'll focus on building strong authentication, authorization, and encryption throughout, while providing compartmentalized access and better operational agility. Understand how perimeter-based defenses have evolved to become the broken model we use today Explore two case studies of zero trust in production networks on the client side (Google) and on the server side (PagerDuty) Get example configuration for open source tools that you can use to build a zero trust network Learn how to migrate from a perimeter-based network to a zero trust network in production

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GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX

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FRONTIERS IN STATISTICS

World Scientific During the last two decades, many areas of statistical inference have experienced phenomenal growth. This book presents a timely analysis and overview of some of these new developments and a contemporary outlook on the various frontiers of statistics. Eminent leaders in the field have contributed 16 review articles and 6 research articles covering areas including semi-parametric models, data analytical nonparametric methods, statistical learning, network tomography, longitudinal data analysis, financial econometrics, time series, bootstrap and other re-sampling methodologies, statistical computing, generalized nonlinear regression and mixed effects models, martingale transform tests for model diagnostics, robust multivariate analysis, single index models and wavelets. This volume is dedicated to Prof. Peter J Bickel in honor of his 65th birthday. The first article of this volume summarizes some of Prof. Bickel's distinguished contributions. Contents: Our Steps on the Bickel Way (K Doksum & Y Ritov) Semiparametric Models: A Review of Progress since BKRW (1993) (J A Wellner et al.) Efficient Estimator for Time Series (A Schick & W Wefelmeyer) On the Efficiency of Estimation for a Single-Index Model (Y Xia & H Tong) Estimating Function Based Cross-Validation (M J Van der Laan & D Rubin) Powerful Choices: Tuning Parameter Selection Based on Power (K Doksum & C Schafer) Nonparametric Assessment of Atypicality (P Hall & J W Kay) Selective Review on Wavelets in Statistics (Y Wang) Model Diagnostics via Martingale Transforms: A Brief Review (H L Koul) Boosting Algorithms: With an Application to Bootstrapping Multivariate Time Series (P Bühlmann & R W Lutz) Bootstrap Methods: A Review (S N Lahiri) An Expansion for a Discrete Non-Lattice Distribution (F Götze & W R van Zwet) An Overview on Nonparametric and Semiparametric Techniques for Longitudinal Data (J Fan & R Li) Regressing Longitudinal Response Trajectories on a Covariate (H-G Müller & F Yao) Statistical Physics and Statistical Computing: A Critical Link (J D Serivea & X-L Meng) Network Tomography: A Review and Recent Developments (E Lawrence et al.) Likelihood Inference for Diffusions: A Survey (Y Ait-Sahalia) Nonparametric Estimation of Production Efficiency (B U Park et al.) Convergence and Consistency of Newton's Algorithm for Estimating Mixing Distribution (J K Ghosh & S T Tokdar) Mixed Models: An Overview (J Jiang & Z Ge) Robust Location and Scatter Estimators in Multivariate Analysis (Y Zuo) Estimation of the Loss of an Estimate (W H Wong) Readership: Advanced graduate students and researchers in statistics.

Keywords: Semiparametrics; Financial Econometrics; Longitudinal Data; Efficient Estimation; Single Index; Atypicality; Martingale Transforms; Boosting; Non-Lattice

Distributions; Longitudinal Data; Network Tomography; Mixed Models Key Features: Gathers contributions from renowned researchers such as Kjell Doksum and Peter Hall A must-have volume for researchers in statistics

A GRAPH-THEORETIC APPROACH TO ENTERPRISE NETWORK DYNAMICS

Springer Science & Business Media This monograph treats the application of numerous graph-theoretic algorithms to a comprehensive analysis of dynamic enterprise networks. Network dynamics analysis yields valuable information about network performance, efficiency, fault prediction, cost optimization, indicators and warnings. Based on many years of applied research on generic network dynamics, this work covers a number of elegant applications (including many new and experimental results) of traditional graph theory algorithms and techniques to computationally tractable network dynamics analysis to motivate network analysts, practitioners and researchers alike.

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DOCUMENTATION ABSTRACTS

CREATING AN ENVIRONMENT FOR SUCCESSFUL PROJECTS

John Wiley & Sons Since it was first published in 1997, *Creating an Environment for Successful Projects* has become a landmark work that shows how to develop project management as an organizational practice. This second edition offers solid, results-oriented advice on how upper management can create an environment that supports the success of special projects and the development of new products. The book also includes a wealth of examples from the authors' workshop participants and readers of the first edition who have successfully implemented these concepts within their organizations. New in the second edition: Ideas and practices about portfolio management to achieve greater overall success from a portfolio of projects Advice for helping project teams come together to become more effective Information for developing the chief project officer Suggestions for implementing project management information systems More descriptions about organizations and people who have used these principles to develop vastly improved environments

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GUIDE TO MANAGING PC NETWORKS

TOOLS AND TECHNIQUES FOR RUNNING LANS

Prentice Hall This book is an ideal guide to help managers and administrators get the most out of their local area networks. Thousands of businesspeople are running networks with no formal training whatsoever. Here's the hands-on help they need. This non-technical introduction to network platforms and protocols distills the experience of hundreds of network administrators and managers into a practical guide that answers the questions they really have. It views networks from the business point of view, helping managers analyze the true costs of the network, plan or evolve networks that can be effectively managed, and implement practical security measures.

BROADBAND POWERLINE COMMUNICATIONS

NETWORK DESIGN

John Wiley & Sons Broadband Powerline Communications: Network Design covers the applications of broadband PLC systems in low-voltage supply networks, a promising candidate for the realization of cost effective solutions for "last mile" communications networks. There are many activities surrounding the development and application of PLC technology in the access area, particularly because of strong interest of new network providers after the deregulation of telecommunications market. Nowadays, there are no existing standards for broadband PLC networks, which use a frequency range up to 30 MHz. This book includes relevant and timely information regarding broadband PLC systems and especially PLC access networks and contributions to the design aspects of broadband PLC access systems and their network components. This book: Offers explanations on how broadband PLC networks are realized, what the important characteristics for the transmission on electrical power grids are, and which implementation solutions have been recently considered for the realization of broadband PLC systems. Considers various system realizations, disturbance scenarios and their impact the transmission in PLC networks, electro-magnetic compatibility, applied modulation schemes, coding, and error handling methods. Pays particular attention to the specifics of the PLC MAC layer and its protocols, as well as the modelling and performance evaluation of broadband PLC networks.