

Web Protocols And Practice Http 1 1 Networking

Protocols Caching And Traffic Measurement

Hardback

Web Protocols and PracticeContent-aware Caching and Traffic Management in Content Distribution NetworksWeb Caching and Content DeliveryDesign and Management of Globally-distributed Network CachesWeb CachingCEH: Certified Ethical Hacker Version 8 Study GuideTeletraffic Engineering in a Competitive WorldCommunications Architectures & ProtocolsImplementing IP Services at the Network EdgeProceedings of the ...ACM Symposium on Theory of ComputingMultimedia Systems and ApplicationsProceedings of the USENIX Symposium on Internet Technologies and Systems ; December 8–11, 1997, Monterey, CaliforniaACM Transactions on Computer SystemsScalable Shared-Memory MultiprocessingAnalysis of Sector Caches for Uni- and Multiprocessor SystemsProceedings of the Thirty-first Annual ACM Symposium on Theory of ComputingNetwork MagazineInformationweekSimulation of Computer NetworksProceedings of the Fifth Symposium on Operating Systems Design and Implementation Balachander Krishnamurthy Meghana Mukund Amble A. Bestavros Ismail Ari Duane Wessels Oriyano Peter Key David Ginsburg Daniel E. Lenoski Jeffrey Blair Rothman

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& Protocols Implementing IP Services at the Network Edge Proceedings of the ...ACM Symposium on Theory of Computing Multimedia Systems and Applications Proceedings of the USENIX Symposium on Internet Technologies and Systems ; December 8–11, 1997, Monterey, California ACM Transactions on Computer Systems Scalable Shared-Memory Multiprocessing Analysis of Sector Caches for Uni- and Multiprocessor Systems Proceedings of the Thirty-first Annual ACM Symposium on Theory of Computing Network Magazine Informationweek Simulation of Computer Networks Proceedings of the Fifth Symposium on Operating Systems Design and Implementation *Balachander Krishnamurthy Meghana Mukund Amble A. Bestavros Ismail Ari Duane Wessels Oriyano Peter Key David Ginsburg Daniel E. Lenoski Jeffrey Blair Rothman*

protocols and practice http 1 1 networking protocols caching and traffic measurement is an all in one reference to the core technologies underlying the world wide the book provides an authoritative and in depth look at the systems and protocols responsible for the transfer of content across the the hypertext transfer protocol http is responsible for nearly three quarters of the traffic on todays internet this books extensive treatment of http 1 1 and its interaction with other network protocols make it an indispensable resource for both practitioners and students providing both the evolution and complete details of the basic building blocks of the protocols and practice begins with an overview of software components and follows up with a description of the suite of protocols that form the semantic core of how content is delivered on the the book later examines measurement and workload characterization and presents a cutting edge report on caching and multimedia streaming it concludes with a discussion on research perspectives that highlight topics that may affect the future evolution of the numerous examples and case studies thr

the rapid increase of content delivery over the internet has lead to the proliferation of content distribution networks cdns management of cdns requires algorithms for request routing content placement and eviction in such a way that user delays are small our

objective in this work is to design feasible algorithms that solve this trio of problems we abstract the system of front end source nodes and back end caches of the cdn in the likeness of the input and output nodes of a switch in this model queues of requests for different pieces of content build up at the source nodes which route these requests to a cache that contains the content for each request that is routed to a cache a corresponding data file is transmitted back to the source across links of finite capacity caches are of finite size and the content of the caches can be refreshed periodically a requested but missing item is fetched to the cache from the media vault of the cdn in case of a lack of adequate space at the cache an existing unrequested item may be evicted from the cache in order to accommodate a new item every such cache refresh or media vault access incurs a finite cost hence the refresh periodicity allowed to the system represents our system cost in order to obtain small user delays our algorithms must consider the lengths of the request queues that build up at the nodes stable policies ensure the finiteness of the request queues while good polices also lead to short queue lengths we first design a throughput optimal algorithm that solves the routing placement eviction problem using instantaneous system state information the design yields insight into the impact of different cache refresh and eviction policies on queue length we use this and construct throughput optimal algorithms that engender short queue lengths we then propose a regime of algorithms which remedies the inherent problem of wastage of capacity we also develop heuristic variants and we study their performance we illustrate the potential of our approach and validate all our claims and results through simulations on different cdn topologies

the international content caching and distribution workshop wcw is a premiere technical meeting for researchers and practitioners interested in all aspects of content caching distribution and delivery on the internet the 2001 wcw meeting was held on the boston university campus building on the successes of the five previous wcw meetings wcw01 featured a strong technical program and record participation from leading researchers

and practitioners in the field this book consists of all the technical papers presented at wcw 01 it includes 20 full papers and four r d synopses that were presented at the workshop the collection reflects the latest research in this important area including such topics as content delivery networks cdns tools and methodology of performance measurements characterization as relates to caching and content distribution scalable web server architectures cache prefetching emerging new edge services and delivery of streaming content

on the world wide speed and efficiency are vital users have little patience for slow web pages while network administrators want to make the most of their available bandwidth a properly designed web cache reduces network traffic and improves access times to popular web sites a boon to network administrators and web users alike caching hands you all the technical information you need to design deploy and operate an effective web caching service it starts with the basics of how web caching works from the http headers that govern cachability to cache validation and replacement algorithms topics covered in this book include designing an effective cache solution configuring web browsers to use a cache setting up a collection of caches that can talk to each other configuring an interception cache or proxy monitoring and fine tuning the performance of a cache configuring web servers to cooperate with web caches benchmarking cache products the book also covers the important political aspects of web caching including privacy intellectual property and security issues internet service providers large corporations or educational institutions in short any network that provides connectivity to a wide variety of users can reap enormous benefit from running a well tuned web caching service caching shows you how to do it right

includes real world scenarios hands on exercises and access to exam prep software featuring practice test environment hundreds of practice questions electronic flashcards chapter review questions glossary of key terms cover

this implementation focused look at the services edge of the internet shows how service providers can deploy high value ip services in an industry faced with increasing commoditization and competition

beginning with a discussion of the fundamentals of scalable multiprocessors and the characteristics of large scale parallel programs the book then presents an in depth presentation of the hardware design issues for this class of machine and a survey of existing and proposed scalable shared memory systems

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