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## Effective Caching with Ehcache

Extend the capabilities of your caching layer by integrating  
Ehcache into your Java Enterprise projects

Daniel Wind

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# Instant Effective Caching With Ehcache

**Noor Abani**



## **Instant Effective Caching With Ehcache:**

**Instant Effective Caching with Ehcache** Daniel Wind, 2013 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This is a Packt How to containing hands on recipes that discuss integrating Ehcache into your Java application This book is aimed at Java developers who are looking for an Ehcache integration reference guide and want to get a good background in its fundamental core functionality It is assumed that you have some experience with Java Prior knowledge in Ehcache is not a requirement

**Technologies and Applications for Big Data Value** Edward Curry, Sören Auer, Arne J. Berre, Andreas Metzger, Maria S. Perez, Sonja Zillner, 2022-04-28 This open access book explores cutting edge solutions and best practices for big data and data driven AI applications for the data driven economy It provides the reader with a basis for understanding how technical issues can be overcome to offer real world solutions to major industrial areas The book starts with an introductory chapter that provides an overview of the book by positioning the following chapters in terms of their contributions to technology frameworks which are key elements of the Big Data Value Public Private Partnership and the upcoming Partnership on AI Data and Robotics The remainder of the book is then arranged in two parts The first part Technologies and Methods contains horizontal contributions of technologies and methods that enable data value chains to be applied in any sector The second part Processes and Applications details experience reports and lessons from using big data and data driven approaches in processes and applications Its chapters are co authored with industry experts and cover domains including health law finance retail manufacturing mobility and smart cities Contributions emanate from the Big Data Value Public Private Partnership and the Big Data Value Association which have acted as the European data community's nucleus to bring together businesses with leading researchers to harness the value of data to benefit society business science and industry The book is of interest to two primary audiences first undergraduate and postgraduate students and researchers in various fields including big data data science data engineering and machine learning and AI Second practitioners and industry experts engaged in data driven systems software design and deployment projects who are interested in employing these advanced methods to address real world problems

**Security, Privacy, and Anonymity in Computation, Communication, and Storage** Guojun Wang, Mohammed Atiquzzaman, Zheng Yan, Kim-Kwang Raymond Choo, 2017-12-11 This book constitutes the refereed proceedings of 11 symposia and workshops held at the 10th International Conference on Security Privacy and Anonymity in Computation Communication and Storage SpaCCS 2017 held in Guangzhou China in December 2017 The total of 75 papers presented in this volume was carefully reviewed and selected from a total of 190 submissions to all workshops UbiSafe 2017 The 9th IEEE International Symposium on UbiSafe Computing ISSR 2017 The 9th IEEE International Workshop on Security in e Science and e Research TrustData 2017 The 8th International Workshop on Trust Security and Privacy for Big Data TSP 2017 The 7th International Symposium on Trust Security and Privacy for Emerging Applications SPIoT 2017 The 6th International

Symposium on Security and Privacy on Internet of Things NOPE 2017 The 5th International Workshop on Network Optimization and Performance Evaluation DependSys 2017 The Third International Symposium on Dependability in Sensor Cloud and Big Data Systems and Applications SCS 2017 The Third International Symposium on Sensor Cloud Systems WCSSC 2017 The Second International Workshop on Cloud Storage Service and Computing MSCF 2017 The First International Symposium on Multimedia Security and Digital Forensics SPBD 2017 The 2017 International Symposium on Big Data and Machine Learning in Information Security Privacy and Anonymity *Cloud Computing* Brian J.S. Chee, Curtis Franklin Jr., 2010-04-07 Modern computing is no longer about devices but is all about providing services a natural progression that both consumers and enterprises are eager to embrace As it can deliver those services efficiently and with quality at compelling price levels cloud computing is with us to stay Ubiquitously and quite definitively cloud computing is

**Spring Recipes** Gary Mak, Daniel Rubio, Josh Long, 2010-12-28 The Spring framework is growing It has always been about choice Java EE focused on a few technologies largely to the detriment of alternative better solutions When the Spring framework debuted few would have agreed that Java EE represented the best in breed architectures of the day Spring debuted to great fanfare because it sought to simplify Java EE Each release since marks the introduction of new features designed to both simplify and enable solutions With version 2.0 and later the Spring framework started targeting multiple platforms The framework provided services on top of existing platforms as always but was decoupled from the underlying platform wherever possible Java EE is still a major reference point but it's not the only target OSGi a promising technology for modular architectures has been a big part of the SpringSource strategy here Additionally the Spring framework runs on Google App Engine With the introduction of annotation centric frameworks and XML schemas SpringSource has built frameworks that effectively model the domain of a specific problem in effect creating domain specific languages DSLs Frameworks built on top of the Spring framework have emerged supporting application integration batch processing Flex and Flash integration GWT OSGi and much more

**Effective Caching Strategies in Distributed Systems** John Smith, 2024-04-29 Effective Caching Strategies in Distributed Systems offers a comprehensive guide to mastering the art and science of caching in distributed environments Tailored for professionals including software developers system architects and IT operations staff this book dives deep into the principles design and implementation of caching pivotal for enhancing system performance and scalability From fundamental concepts to advanced topics like cache consistency security considerations and emerging technologies the book equips readers with the knowledge necessary to design and manage cutting edge cache systems Structured to progress from basic to complex subjects each chapter methodically unfolds enriched with real world examples and case studies that apply theoretical insights to practical scenarios With a focus on current and future trends the book not only lays down strategies for optimization and tuning but also prepares readers to tackle upcoming innovations in the caching landscape Whether you are looking to mitigate bottlenecks increase efficiency or

update your systems with the latest in caching technology Effective Caching Strategies in Distributed Systems is an essential resource that will usher in new levels of operational excellence in your technological endeavors *Instant Varnish Cache How-to* Roberto Moutinho,2013 Hands on recipes to improve your website s load speed and overall user experience with Varnish Learn something new in an Instant A short fast focused guide delivering immediate results Connect and health check application servers with Varnish Cache Load balance requests across clustered servers Define caching policies and request response workflow In Detail When you re doing business on the Web every second counts 80 percent of the end user response time is spent on downloading content to the browser and Varnish Cache is here to help you solve this problem in a simple and effective way Varnish Cache How to is a practical hands on guide that will take you from beginner to advanced improving your website speed and dropping the bounce and page abandonment rates of your website With easy to follow recipes this book will help you take advantage of caching your application server s response to avoid a duplicated workload This book will take you from the installation of the Varnish Cache server to defining caching policies the normalization of static content and a final production ready fast and scalable cache server You will learn to balance requests across servers based on input data or pre defined settings create persisted sessions sticky sessions compress static content and modify requests If you want to improve the speed and also provide a fail over mechanism to achieve a fast and available website then this book is for you By the end of this book you ll learn how to scale and improve the user s experience by providing a fast and available website

**Caching and Materialization for Web Databases** Alexandros Labrinidis,Qiong Leo,Jie Xu,Wenwei Xue,2010-02-19 Database systems have been driving dynamic web sites since the early 90s nowadays even seemingly static web sites employ a database back end for personalization and advertising purposes In order to keep up with the high demand fuelled by the rapid growth of the Internet a number of caching and materialization techniques have been proposed for web databases over the years The main goal of these techniques is to improve performance scalability and manageability of database driven dynamic web sites in a way that the quality of data is not compromised Although caching and materialization are well understood concepts in the traditional database and networking operating systems literature the Web and web databases bring forth unique characteristics that warrant new techniques and approaches In this survey we adopt a data management point of view to describe the system architectures of web databases and analyze the research issues related to caching and materialization in such architectures We also present the state of the art in caching and materialization for web databases and organize current approaches according to the fundamental questions namely how to store how to use and how to maintain cached materialized web data Finally we associate work in caching and materialization for web databases to similar techniques in other related areas such as data warehousing distributed systems and distributed databases

**Optimized Caching Techniques: Application for Scalable Distributed Architectures** Peter Jones,2025-01-17 Optimized Caching Techniques Application for Scalable Distributed Architectures offers a comprehensive

guide to mastering the art and science of caching in distributed environments Tailored for professionals including software developers system architects and IT operations staff this book delves deep into the principles design and implementation of caching pivotal for enhancing system performance and scalability From fundamental concepts to advanced topics like cache consistency security considerations and emerging technologies the book equips readers with the knowledge necessary to design and manage cutting edge cache systems Structured to progress from basic to complex subjects each chapter methodically unfolds enriched with real world examples and case studies that apply theoretical insights to practical scenarios With a focus on current and future trends the book not only lays down strategies for optimization and tuning but also prepares readers to tackle upcoming innovations in the caching landscape Whether you are looking to mitigate bottlenecks increase efficiency or update your systems with the latest in caching technology *Optimized Caching Techniques Application for Scalable Distributed Architectures* is an essential resource that will usher in new levels of operational excellence in your technological endeavors

*Web Caching* Duane Wessels, 2001 On the World Wide Web 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 *Web 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 *Web Caching* shows you how to do it right

*Web Caching and Replication* Michael Rabinovich, Oliver Spatscheck, 2002 In *Web Caching and Replication* two AT and utilize cooperative proxy caching They offer in depth insights into cache consistency and caching the uncacheable including cookie and dynamic content Part III introduces today's best techniques for web replication offering in depth coverage of content delivery networks server selection content placement and more For all networking professionals IT professionals and engineers involved with building or optimizing Internet services or equipment for content delivery specialists and service providers and for owners of large sites concerned about scalability and performance

*Web Content Caching and Distribution* Fred Douglass, Brian D. Davison, 2004-08-10 Web caching and content delivery technologies provide the infrastructure on which systems are built for the scalable distribution of information This proceedings of the eighth annual workshop captures a cross section of the latest

issues and techniques of interest to network architects and researchers in large scale content delivery Topics covered include the distribution of streaming multimedia edge caching and computation multicast delivery of dynamic content enterprise content delivery streaming proxies and servers content transcoding replication and caching strategies peer to peer content delivery and Web prefetching Web Content Caching and Distribution encompasses all areas relating to the intersection of storage and networking for Internet content services The book is divided into eight parts mobility applications architectures multimedia customization peer to peer performance and measurement and delta encoding

**Web Caching and Its Applications** S.V. Nagaraj, 2006-04-18 The last decade has seen a tremendous growth in the usage of the World Wide Web The Web has grown so fast that it seems to be becoming an unusable and slow behemoth Web caching is one way to tame and make this behemoth a friendly and useful giant The key idea in Web caching is to cache frequently accessed content so that it may be used profitably later This book focuses entirely on Web caching techniques Much of the material in this book is very relevant for those interested in understanding the wide gamut of Web caching research It will be helpful for those interested in making use of the power of the Web in a more profitable way Audience and purpose of this book This book presents key concepts in Web caching and is meant to be suited for a wide variety of readers including advanced undergraduate and graduate students programmers network administrators researchers teachers technologists and Internet Service Providers ISPs

**Efficient Analysis of Caching Systems** James Gordon Thompson, 1987 This dissertation describes innovative techniques for efficiently analyzing a wide variety of cache designs and uses these techniques to study caching in a network file system The techniques are significant extensions to the stack analysis technique Mattson et al 1970 which computes the read miss ratio for all cache sizes in a single trace driven simulation Stack analysis is extended to allow the one pass analysis of 1 writes in a write back cache including periodic write back and deletions important factors in file system cache performance 2 sub block or sector caches including load forward prefetching 3 multi processor caches in a shared memory system for an entire class of consistency protocols including all of the well known protocols 4 client caches in a network file system using a new class of consistency protocols The techniques are completely general and apply to all levels of memory hierarchy for processor caches to disk and file system caches The dissertation also discusses the use of hash table and binary trees within the simulator to further improve performance for some types of traces Using these techniques the performance of all cache sizes can be computed in little more than twice the time required to simulate a single cache size and often in just 10% more time In addition to resending techniques this dissertation also demonstrates their use by studying client caching in a network file system It first reports the extent of file sharing in a UNIX environment showing that a few shared files account for two thirds of all accesses and nearly half of these are to files which are both read and written It then studies different cache consistency protocols write policies and fetch policies reporting the miss ratio and file server utilization for each Four cache consistency protocols are considered a polling protocol that uses the server for all consistency

controls a protocol designed for single user files one designed for read only files and one using write broadcast to maintain consistency It finds that the choice of consistency protocol has substantial effect on performance both the read only and write broadcast protocols showed half the misses and server load of the polling protocol The choice of write or fetch policy made a much smaller difference

**Web Caching** Duane Wessels,2001-06-01 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 Web Caching hands you all the technical information you need to design deploy and operate a web caching service It spells out in practical detail how to design an effective cache solution configure both web servers and web browsers to use a cache set up a collection of caches that can talk to each other and monitor and fine tune the performance of a cache The book also covers the important political aspects of web caching including privacy and security issues Internet service providers large corporations and 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 Web Caching shows how to do it right

Web Caching and Content Delivery A. Bestavros,M. Rabinovich,2001-12-14 The International Web 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 Web characterization as relates to caching and content distribution scalable web server architectures cache prefetching emerging new edge services and delivery of streaming content

*Caching Strategies for Private and Efficient Content Retrieval in Information-Centric Networks* Noor Abani,2018 In the recent years we have witnessed an explosive growth of content on the Internet storage retrieval delivery Consequently the usage of computer networking shifted from sharing hardware and processing resources as its purpose was in the early days of its creation to accessing and sharing content instead Therefore the current TCP IP Internet architecture having been designed for the former purpose is facing several problems in adapting to that phenomenal increase in content Information Centric Networking ICN is a proposal for a future network architecture to better adapt to the current needs of users connected to the Internet ICN shifts from the current host centric TCP IP architecture to one where content is the focal point Specifically IP addresses are replaced by content names as the main identifier for packet routing and forwarding Disposing of the end to end principle that keeps end to end transactions unaware of resources and content available along the path ICN leverages in network caching to make content distribution more efficient by reducing network traffic download time and server load While in network caching is a



potential performance booster if done naively it can hinder full exploitation of its benefits and also pose several privacy threats In this thesis we aim at proposing caching mechanisms that could achieve efficient content distribution while also providing privacy guarantees to the requester of content In current ICN implementations the default caching strategy is one where each router caches every piece of content that passes through it It has been shown in previous work that such a universal mode of caching is inefficient highly redundant incurring high replacement rates and also privacy breaching This thesis addresses the aforementioned limitations by designing caching strategies that aim at reducing redundancy replacement rates and protect user privacy The problem is first formulated as an optimization problem that finds the optimal storage allocation and content placement that minimizes data delivery costs subject to storage budget and link capacities while also taking into account content popularity profiles Given that such constraints might not be available a priori we also propose two popularity based caching strategies where routers autonomously track content popularity and progressively cache file chunks as the file gets more popular We acknowledge the lack of consideration for the effect of content popularity dynamics in previous caching schemes and emulate content popularity dynamics by simulating spatial and temporal locality of content items to study its effect on in network caching policies In addition to its inefficiency universal caching has also caused the emergence of several privacy risks Timing attacks are one such privacy breach where attackers use timing analysis of data retrievals to analyze users interests in particular content In this thesis we explain the vulnerability of ICN to timing attacks and propose centrality based caching to mitigate such attacks and use the anonymity set privacy metric to show that our strategy does provide privacy guarantees Moreover our simulations show that we can still achieve high hit rates and low delays while alleviating the network s vulnerability to timing attacks Lastly we also design a proactive caching strategy for ICN where user content is prefetched and cached before it is requested Previously proactive caching has been considered for edge networks only In this thesis we design a proactive caching strategy that leverages ICN s flexibility of caching data anywhere in the network rather than just at the edge Such leverage allows for reducing redundant caching to combat prediction uncertainty by prefetching at routers at levels higher in the network hierarchy The end goal of this thesis is a better understanding of the limitations of a universal caching policy in addition to designing both reactive and proactive caching strategies that in comparison provide more efficient content retrieval while also protecting user privacy

*A Deep Reinforcement Learning-Based Caching Strategy for Internet of Things Networks with Transient Data* Ali Nasehzadeh, 2021

Internet of Things IoT has been on a continuous rise in the past few years and its potentials are now more apparent Transient data generation and limited energy resources are the major bottlenecks of these networks Besides conventional quality of service measurements are still valid requirements that should be met such as throughput jitter error rate and delay or latency An efficient caching policy can help meet the standard quality of service requirements while bypassing the specific limitations of IoT networks Adopting deep reinforcement learning DRL algorithms enables us to develop an effective caching

scheme without the need for any prior knowledge or contextual information such as popularity distributions or the lifetime of files In this thesis we propose DRL based caching schemes that improve the cache hit rate and energy consumption of IoT networks compared to some well known conventional caching schemes We also propose a hierarchical caching architecture that enables parent nodes to receive the requests from multiple edge nodes and make caching decisions independently The results of comprehensive experiments show that our proposed method outperforms the well known conventional caching policies and an existing DRL based method in cache hit and energy consumption rates by considerable margins In the fifth chapter we seek machine learning based caching solutions for the cases in which the file popularity distribution is not static but changing over time Taking the same system model into consideration we propose a concept drift detection method based on clustering and cluster similarity measurements The drift detection can trigger a process that leads the DRL agent to adapt to the new popularity distribution we have based this process on transfer learning techniques Transfer learning can help us leverage the existing knowledge in trained models and significantly speed up the training phase of our machine learning models

A Method to Improve Internet Caching by Efficient Cache Distribution Naveed Ahmed,2001      **Perspectives of Cooperative Caching** Syed Hassan Shah,2018-08-21 Seminar paper from the year 2017 in the subject Computer Science Applied grade 3 5 course Assignment language English abstract From the recent studies we come to know that the cooperative caching can improve the performance of system in wireless P2P networks such as hoc networks and mesh networks do Somehow these all very high level studies leave many design and implementation issues which are still unanswered While by study it shows that cooperative caching not only reduce the overhead copying issue between the user space and the kernel space but it also allow data pipelines for end to end delay reduction While the chip multiprocessors systems have made the on chip caches as a decisive recourse shared among co scheduled threads Still there are many challenges with respect to design for limited bandwidth increasing on chip wire interruption and extra capability features So effectively Cooperative cache can support minimizing average access of memory latency and inaccessibility of critical inter thread interference So Caching is the common technique used for improve the Cooperative Cache approach is intended for the treatment of large video streams with on requires access Day by day Mobile technology is coming around us So for general this technology needs address of Internet Service Provider ISP for cross domain traffic So different researchers present s algorithms of the strategy that shows changes brought to the content center network protocol in to implement the method As recent works on cooperative caching in networks technology like work on Content Center network also enables the manipulation of the cache resources of routers with new generation For CRs mostly researcher proposed least recently Used LRU approach Cooperative cache can improve accessibility of data objects in mobile ad hoc network where a mobile host can communicate with any other system anywhere anytime Cooperative caching in mobile technology brings reality with

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