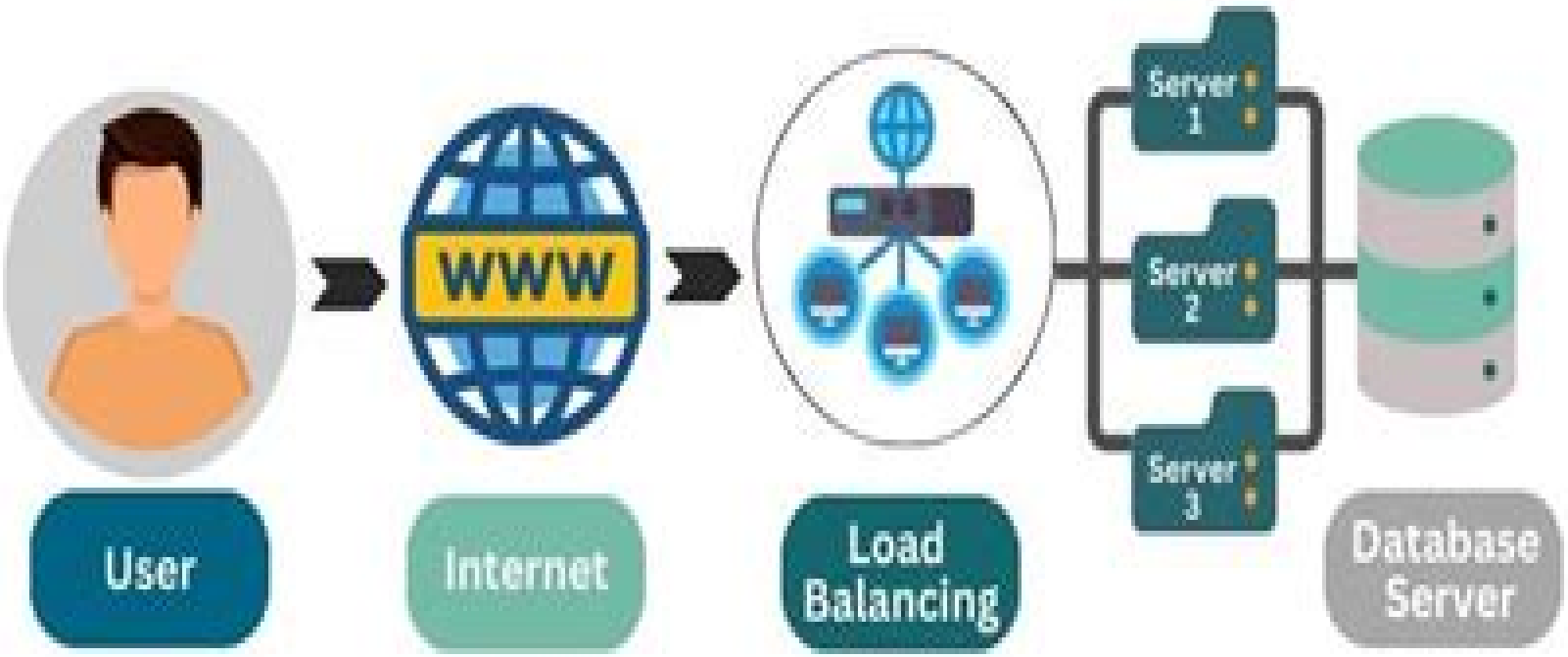
Load Balancing in Cloud Computing



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Static Load Balancing Algorithms In Cloud Computing

Jossy George,Kamal Upreti,Ramesh Chandra Poonia,Ankit Gautam,Danish Nadeem

Static Load Balancing Algorithms In Cloud Computing:

Comparative Analysis of Load Balancing Algorithms in Cloud Computing Mohit Tomar,2017 Abstract Cloud computing is a novel trend emerging in Information Technology IT environments with immense infrastructure and resources An integral aspect of cloud computing is load balancing Efficient load balancing in cloud computing ensures effective resource utilization There are two types of load balancers the static load balancer and the dynamic load balancer While both types of load balancers are widely used in the industry they differ in performance In this project the performances of the most widely used static and dynamic load balancers namely the round robin and the throttled are compared Specifically the project examines whether the throttled algorithm takes less time than the round robin algorithm to access data in cloud computing The results show that the throttled algorithm takes less time than the round robin algorithm to access data and that this difference is due to a faultiness in the implementation of the round robin algorithm **Cloud Computing and Security** Xingming Sun,Han-Chieh Chao,Xingang You,Elisa Bertino,2017-10-30 This two volume set LNCS 10602 and LNCS 10603 constitutes the thoroughly refereed post conference proceedings of the Third International Conference on Cloud Computing and Security ICCCS 2017 held in Nanjing China in June 2017 The 116 full papers and 11 short papers of these volumes were carefully reviewed and selected from 391 submissions The papers are organized in topical sections such as information hiding cloud computing IOT applications information security multimedia applications optimization and classification *Recent Advances in Computing Sciences* Manmohan Sharma,Mintu Nath,Sophiya Sheikh,Amar Singh,2025-01-27 The 2nd International Conference on Recent Advances in Computing Sciences RACS was held from 29th to 30th November 2022 at Lovely Professional University Jalandhar India The conference focused on discussing issues exchanging ideas and the most recent innovations towards advancing research in the field of Computing Sciences and Technology All technical sessions were predominantly related to Data Science Artificial intelligence Remote Sensing Image Processing Computer Vision Data Forensics Cyber Security Computational Sciences Simulation and modeling Business Analytics and Machine Learning Proceedings of Fifth International Conference on Computing, Communications, and Cyber-Security Sudeep Tanwar,Pradeep Kumar Singh,Maria Ganzha,Gregory Epiphaniou,2024-07-30 This book features selected research papers presented at the Fifth International Conference on Computing Communications and Cyber Security IC4S 05 organized in India during 29 February to 1 March 2024 The conference was hosted at SMVDU Katra J K India It includes innovative work from researchers leading innovators and professionals in the areas of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues The work is presented in two volumes Cloud Computing Applications and Techniques for E-Commerce Gochhait, Saikat,Shou, David Tawei,Fazalbhoy, Sabiha,2019-12-27 Many professional fields have been affected by the rapid growth of technology and information Included in this are the business and management markets

as the implementation of e commerce and cloud computing have caused enterprises to make considerable changes to their practices With the swift advancement of this technology professionals need proper research that provides solutions to the various issues that come with data integration and shifting to a technology driven environment Cloud Computing Applications and Techniques for E Commerce is an essential reference source that discusses the implementation of data and cloud technology within the fields of business and information management Featuring research on topics such as content delivery networks virtualization and software resources this book is ideally designed for managers educators administrators researchers computer scientists business practitioners economists information analysists sociologists and students seeking coverage on the recent advancements of e commerce using cloud computing techniques **Novel Practices and Trends in Grid and Cloud Computing** Raj, Pethuru,Koteeswaran, S.,2019-06-28 Business and IT organizations are currently embracing new strategically sound concepts in order to be more customer centric competitive and cognitive in their daily operations While useful the various software tools pioneering technologies as well as their unique contributions largely go unused due to the lack of information provided on their special characteristics Novel Practices and Trends in Grid and Cloud Computing is a collection of innovative research on the key concerns of cloud computing and how they are being addressed as well as the various technologies and tools empowering cloud theory to be participative penetrative pervasive and persuasive While highlighting topics including cyber security smart technology and artificial intelligence this book is ideally designed for students researchers and business managers on the lookout for innovative IT solutions for all the business automation software and improvisations of computational technologies **Cognitive Cloud Computing** Jossy George,Kamal Upreti,Ramesh Chandra Poonia,Ankit Gautam,Danish Nadeem,2025-12-30 This book serves as a comprehensive guide covering the fundamentals of cloud computing advanced concepts and practical applications Discusses cyber physical systems cloud integration for environmental management and cloud security intelligence systems for sustainable operations Presents case studies based on computational intelligence based optimization for sustainable operations and cloud integration Emphasizes how cloud computing revolutionizes traditional processes enabling direct input of assembly details into a computation model streamlining development cycles and reducing costs Bridges the gap between theory and practice by offering guidelines on problem encoding and implementation strategies empowering readers to apply their acquired knowledge to solve complex industrial problems Covers wireless security in the cloud era mechatronics and cloud integration and cloud enabled manufacturing for eco friendly operations The text is primarily written for senior undergraduates graduate students and academic researchers in electrical engineering electronics and communications engineering computer engineering and information technology CLOUD COMPUTING PACHGHARE, V. K. ,2015-12-01 This well organized book presents the principles techniques design and implementation of cloud computing with a perfect balance in the presentation of theoretical and practical aspects The book after providing a brief introduction to the subject

gives a clear analysis of different cloud computing models and explains all the relevant concepts on virtualization security issues and challenges in cloud computing In addition to this the book introduces the reader with some of the prominent cloud service provider companies like Amazon Microsoft and Google and discusses the various features of these web services Further to provide the necessary background required to understand the principles of cloud computing the roadmap for migration of application to cloud and roles of different standards used for cloud computing are discussed in detail The discussion ends after addressing mobile cloud computing and microservices the recent advances in cloud computing The book is primarily intended for the undergraduate and postgraduate students of computer science and engineering and information technology Key features Focuses more on the applications and security aspects Incorporates exercises at the end of each chapter Provides live examples and large number of diagrams for illustrations The book is primarily intended for the undergraduate and postgraduate students of computer science and engineering and information technology **Synergies in Data Analytics and Cyber Security** Deepak Puthal,Bijaya Ketan Panigrahi,Niranjan Ray,Zhiguo Ding,2026-03-08 This book presents the select proceedings of the 7th International Conference on Data Analytics and Cyber Security DACS 2024 It covers distinct features of various data analytics cyber security and synergies in data analytics and cyber security to resolve physical world problems The book will be useful for researchers and professionals interested in the broad field of cyber security **Performance Study of Load Balancing Algorithm in Cloud Computing** Zhnova Adnan Obaid,2017 Cloud computing is one of the information technology latest development that achieved a huge success and it has taken over the technology world This is due to its ability to provide a broad range of users to access vast amount of virtualized resources scalable services and storage service via using the Internet Load balancing is an important part functionality of cloud computing because of its ability to stabilize the load and provide maximum optimization Therefore it comes with no surprise that it requires a lot of attention and study During the course of many years vast amount of load balancing algorithms have been developed while some of them were instant success some of them were not It is important to investigate and examine these algorithms to compare contrast and to determine which algorithm works with what This research project is going to study different types of load balancing algorithms such as RR Random No load balancer Max min Min min etc By analyzing the result that is obtained from the simulation from the Riverbed Modeler software to discover and to choose best ways for resource utilization and an efficient load balancing algorithm Load Balancing Algorithms in Cloud Computing Vignesh Joshi,2020 Cloud computing plays an important role in enhancing the effective sharing of resources in virtual machines Scheduling and load balancing are the two common concepts that cloud computing relies on ensuring that a prescribed task is assigned to the most appropriate virtual machine Also cloud computing should have the ability to handle multiple independent tasks that are arriving and execute them in the same or multiple nodes In a heterogeneous environment static and dynamic scheduling plays an important role by enhancing the allocation of tasks to the appropriate resources to satisfy

the internet users requests and making cloud computing technology more efficient This work aims to evaluate and discuss important algorithms that will help improve the load balancing performance of cloud systems *A Comparison of Select Load Balancing Algorithms in Cloud Computing* Varsha Thakur,2015 This paper compares the performances of three algorithms with different service broker policies namely Round Robin Equally Spread Current Execution ESCE and Throttled Load Balancing CloudSim and CloudSim based tool are used for simulation The results reveal that Throttled load balancing algorithm with optimistic service broker policy is superior to others However from the cost point of view Round Robin under closest service broker policy is most cost effective due to little migration overheads **A FRAMEWORK FOR SCALABLE DISTRIBUTED JOB PROCESSING WITH DYNAMIC LOAD BALANCING USING DECENTRALIZED APPROACH** Dr P. SrinivasaRao,2017-12-30 A distributed system consists of many heterogeneous processors with different processing power and all processors are interconnected with a communication channel In such a system if some processors are less loaded or idle and others are heavily loaded the system performance will be reduced drastically System performance can be improved by using proper load balancing 1 4 The aim of load balancing is to improve the performance measures and reduce the overall completion time and cost **Comparative Study of Load Balancing Algorithms in Cloud Computing for Wired and Wireless Networks** Rasti Qasim Ali,2018 Cloud computing is emerging as a modern paradigm for the purpose of accessing manipulating and configuring large scale distributed applications through the Internet The load on the cloud is evolving with the development of new applications in parallel Load balancing algorithms improve the workload to be distributed equally across all nodes and prevents the situation in which some nodes become overloaded while others have the lowest load at the time when a request is made Performance parameters just like CPU utilization and Processing Delay have been studied in order to achieve a higher user satisfaction and resource allocation ratio and ensures that all computing applications perform the same amount of work in the equal time Load balancing is an ideal solution to evenly distribute the load across all the servers by using different types of load balancing algorithms The deployment of cloud computing raises so many challenge tasks such as resource management request handling in cloud environment and the most important one is how to balance load in cloud computing In this project in order to solve the problem of network congestions some load balancing algorithms have been used with the use of a load balancer in two types of technologies wired and wireless OPNET modeler has been used to examine the used load balancing algorithms for different scenarios Moreover the performance of some parameters has been obtained such as CPU utilization on both load balancer and the servers and the processing delay on the load balancer A deep analysis was conducted to investigate these parameters of performance and well studied comparison is achieved The numerical results proved that using a load balancer decreases the CPU utilization and load on the servers

Algorithms for Energy Efficient Load Balancing in Cloud Environments Norman Peitek,2014-12-30 Seminar paper from the year 2013 in the subject Computer Science Commercial Information Technology grade 1 0 Otto von Guericke University

Magdeburg Faculty of Computer Science course Recent Topics in Business Informatics language English abstract Energy efficiency has a rising importance throughout society With the growth of large data centers the energy consumption becomes centralized and nowadays takes a significant amount of the overall electricity consumption of a country Load balancing algorithms are able to make an existing infrastructure more efficient without major drawbacks This structured literature research presents the state of the art technology regarding the load balancing approach to make data centers more en ergy efficient The state of the art approaches are reviewed for techniques im provements and consideration of performance effects

A Novel Approach To Enhance The Performance Of Cloud Computing File System Using Load Balancing Algorithm Pradheep Manisekaran,2015-02-19 Doctoral Thesis Dissertation from the year 2014 in the subject Computer Science IT Security Lovely Professional University Punjab Lovely Professional University Phagwara Punjab course M Tech Information Technology language English abstract Cloud computing is one of the biggest thing in computing in recent time Cloud computing uses the internet and the central remote servers to support different data and applications Cloud computing is that emerging technology which is used for providing various computing and storage services over the Internet In the cloud computing the internet is viewed as a cloud Internet users can receive services from a cloud as if they were employing a super computer which be using cloud computing To storing data in the cloud instead of on their own devices and it making ubiquitous data access possible Load balancing helps to make resource utilization effective and also used to improve the response time of the job The load balancing helps to remove the nodes which are unbalanced In this situation it removes the nodes which are overloaded or under loaded It is dynamic in nature In the cloud computing file system management is the big issue We use round robin algorithm with load balancing in the file systems It will help to enhance the performance of file system It also helps to increase the access of file systems in cloud computing **A Predictive Workload Balancing Algorithm in Cloud Services** Mahdee Jodayree,2018 In today s business world many companies and government agencies depend on the infrastructures of cloud services to host and process their information Load processing of many cloud services is distributed in a static manner which can overload the largest available systems This paper is an exploratory study on the predictive approach for dynamic resource distribution of cloud services Today many cloud service providers are exploring the benefit of dynamic workload balancing for their resource management Rather than issuing fixed resources to each customer a dynamic hosting alternative offers a way to allocate resources dynamically and more efficiently to save computational power Efficient cloud resource management can be achieved by simulating cloud services based on the predictions of incoming workloads which can be more efficient than static allocation methods Wolke Bichler and Setzer 2015 Previous researchers in this area have focused on dynamic load balancing algorithms that are based on a current workload demanded by a client These approaches require high computational power and additional time to meet the demands of dynamic cloud services This paper introduces a rule based workload balancing algorithm based on the predictions of an end

to end system called Cicada A simulation of cloud services can be achieved by a cloud service simulator called CloudSim and it will be used to achieve an algorithm with lower computational demand and a faster workload balancing The final result will demonstrate the effectiveness of a predictive workload balancing approach that can achieve faster workload balancing with a lower computational power usage **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1990 Issues for 1973 cover the entire IEEE technical literature **International Aerospace Abstracts** ,1998 **Load Balancing and Rate Limiting Based Algorithms for Improving Cloud Computing Performance** Joseph Doyle,2012

This Captivating World of Kindle Books: A Thorough Guide Unveiling the Pros of Kindle Books: A Realm of Convenience and Versatility E-book books, with their inherent mobility and simplicity of availability, have liberated readers from the limitations of hardcopy books. Done are the days of lugging cumbersome novels or meticulously searching for specific titles in shops. Kindle devices, sleek and lightweight, seamlessly store an extensive library of books, allowing readers to indulge in their preferred reads whenever, everywhere. Whether traveling on a bustling train, lounging on a sun-kissed beach, or simply cozying up in bed, E-book books provide an unparalleled level of convenience. A Reading World Unfolded: Discovering the Wide Array of E-book Static Load Balancing Algorithms In Cloud Computing Static Load Balancing Algorithms In Cloud Computing The E-book Shop, a virtual treasure trove of bookish gems, boasts an wide collection of books spanning diverse genres, catering to every readers taste and choice. From gripping fiction and thought-provoking non-fiction to timeless classics and contemporary bestsellers, the Kindle Store offers an unparalleled abundance of titles to discover. Whether seeking escape through engrossing tales of imagination and adventure, diving into the depths of historical narratives, or expanding ones knowledge with insightful works of scientific and philosophical, the Kindle Shop provides a gateway to a literary world brimming with limitless possibilities. A Transformative Force in the Bookish Scene: The Persistent Impact of Kindle Books Static Load Balancing Algorithms In Cloud Computing The advent of Kindle books has certainly reshaped the bookish landscape, introducing a model shift in the way books are published, disseminated, and consumed. Traditional publishing houses have embraced the digital revolution, adapting their approaches to accommodate the growing demand for e-books. This has led to a surge in the availability of Kindle titles, ensuring that readers have access to a wide array of bookish works at their fingertips. Moreover, E-book books have equalized access to books, breaking down geographical limits and providing readers worldwide with similar opportunities to engage with the written word. Irrespective of their location or socioeconomic background, individuals can now immerse themselves in the intriguing world of books, fostering a global community of readers. Conclusion: Embracing the E-book Experience Static Load Balancing Algorithms In Cloud Computing Kindle books Static Load Balancing Algorithms In Cloud Computing, with their inherent convenience, flexibility, and vast array of titles, have undoubtedly transformed the way we experience literature. They offer readers the liberty to explore the boundless realm of written expression, anytime, everywhere. As we continue to travel the ever-evolving online scene, Kindle books stand as testament to the lasting power of storytelling, ensuring that the joy of reading remains reachable to all.

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