Users

Requests

Load Balancer

(Load Balancing Algorithms)

VM   VM   VM   VM   VM   VM

Server   Server   Server

Pool of PMs

Load Balancing In Cloud Computing

Liying Dong

Load Balancing 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 **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 *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 **Cloud Computing, Smart Grid and Innovative Frontiers in Telecommunications** Xuyun Zhang,Guanfeng Liu,Meikang Qiu,Wei Xiang,Tao Huang,2020-05-22 This book constitutes the refereed proceedings of the 9thInternational Conference on Cloud Computing CloudComp 2019 and the 4th International Conference on Smart Grid and Innovative Frontiers in Telecommunications SmartGIFT 2019 both held in

Beijing China in December 2019 The55 full papers of both conferences were selected from 113 submissions CloudComp 2019 presents recent advances and experiences in clouds cloud computing and related ecosystems and business support The papers are grouped thematically in tracks on cloud architecture and scheduling cloud based data analytics cloud applications and cloud security and privacy SmartGIFT 2019 focus on all aspects of smart grids and telecommunications broadly understood as the renewable generation and distributed energy resources integration computational intelligence applications information and communication technologies *Cloud Computing Bible* Barrie Sosinsky,2010-12-10 The complete reference guide to the hot technology of cloud computing Its potential for lowering IT costs makes cloud computing a major force for both IT vendors and users it is expected to gain momentum rapidly with the launch of Office Web Apps later this year Because cloud computing involves various technologies protocols platforms and infrastructure elements this comprehensive reference is just what you need if you ll be using or implementing cloud computing Cloud computing offers significant cost savings by eliminating upfront expenses for hardware and software its growing popularity is expected to skyrocket when Microsoft introduces Office Web Apps This comprehensive guide helps define what cloud computing is and thoroughly explores the technologies protocols platforms and infrastructure that make it so desirable Covers mobile cloud computing a significant area due to ever increasing cell phone and smartphone use Focuses on the platforms and technologies essential to cloud computing Anyone involved with planning implementing using or maintaining a cloud computing project will rely on the information in Cloud Computing Bible *Computational Intelligence for Green Cloud Computing and Digital Waste Management* Kumar, K. Dinesh,Varadarajan, Vijayakumar,Nasser, Nidal,Poluru, Ravi Kumar,2024-02-27 In the digital age the relentless growth of data centers and cloud computing has given rise to a pressing dilemma The power consumption of these facilities is spiraling out of control emitting massive amounts of carbon dioxide and contributing to the ever increasing threat of global warming Studies show that data centers alone are responsible for nearly eighty million metric tons of CO2 emissions worldwide and this figure is poised to skyrocket to a staggering 8000 TWh by 2030 unless we revolutionize our approach to computing resource management The root of this problem lies in inefficient resource allocation within cloud environments as service providers often over provision computing resources to avoid Service Level Agreement SLA violations leading to both underutilization of resources and a significant increase in energy consumption Computational Intelligence for Green Cloud Computing and Digital Waste Management stands as a beacon of hope in the face of the environmental and technological challenges we face It introduces the concept of green computing dedicated to creating an eco friendly computing environment The book explores innovative intelligent resource management methods that can significantly reduce the power consumption of data centers From machine learning and deep learning solutions to green virtualization technologies this comprehensive guide explores innovative approaches to address the pressing challenges of green computing Whether you are an educator teaching about green computing an environmentalist seeking sustainability

solutions an industry professional navigating the digital landscape a resolute researcher or simply someone intrigued by the intersection of technology and sustainability this book offers an indispensable resource   Cloud Computing Enabled Big-Data Analytics in Wireless Ad-hoc Networks Sanjoy Das,Ram Shringar Rao,Indrani Das,Vishal Jain,Nanhay Singh,2022-03-20 This book discusses intelligent computing through the Internet of Things IoT and Big Data in vehicular environments in a single volume It covers important topics such as topology based routing protocols heterogeneous wireless networks security risks software defined vehicular ad hoc networks vehicular delay tolerant networks and energy harvesting for WSNs using rectenna FEATURES Covers applications of IoT in Vehicular Ad hoc Networks VANETs Discusses use of machine learning and other computing techniques for enhancing performance of networks Explains game theory based vertical handoffs in heterogeneous wireless networks Examines monitoring and surveillance of vehicles through the vehicular sensor network Investigates theoretical approaches on software defined VANET The book is aimed at graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer science and engineering   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   **Proceedings of the 3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC – 16')** V. Vijayakumar,V. Neelanarayanan,2016-02-22 This proceedings volume contains selected papers that were presented in the 3rd International Symposium on Big data and Cloud Computing Challenges 2016 held at VIT University India on March 10 and 11 New research issues challenges and opportunities shaping the future agenda in the field of Big Data and Cloud Computing are identified and presented throughout the book which is intended for researchers scholars students software developers and practitioners working at the forefront in their field This book acts as a platform for exchanging ideas setting questions for discussion and sharing the experience in Big Data and Cloud Computing domain   Anticipatory Models of Load Balancing in Cloud Computing Shahrzad Aslanzadeh,2016   **Silverlight 4** Nick Lecrenski,2010-04-26 A hands on guide to Microsoft s latest rich

application development technology Silverlight 4 Silverlight 4 is the newest version of the rich Internet application toolkit that provides support for NET capabilities over the Internet With this latest release of Silverlight Microsoft has revolutionized the way that Web applications can be created This book uses the popular Problem Design Solution strategy to demonstrate how to harness the power and abilities of Silverlight 4 to add value to the overall user experience of a Web site Using a Web site created by the author as a reference point you ll go through the steps of creating a live fully functional application for the Web using Silverlight 4 and the Silverlight Control Toolkit Along the way the book addresses important design considerations such as the use of Web Services and the SQL Server database Uses the popular Problem Design Solution format show you how to harness the power of the latest version of Silverlight Microsoft s rich Internet application toolkit Puts the author s own Web site to task as you learn to create rich user interfaces that integrate video HTML and social networking components Explains system linking and data flow end user interface system architecture based on Silverlight 4 and NET 4 and more Includes coverage on integrating social networking and Facebook With this book you ll quickly get started using the new features of Silverlight 4 to enhance the user experience of a Web site Note CD ROM DVD and other supplementary materials are not included as part of eBook file *Cloud Computing Design Patterns* Thomas Erl,Robert Cope,Amin Naserpour,2015-05-23 This book continues the very high standard we have come to expect from ServiceTech Press The book provides well explained vendor agnostic patterns to the challenges of providing or using cloud solutions from PaaS to SaaS The book is not only a great patterns reference but also worth reading from cover to cover as the patterns are thought provoking drawing out points that you should consider and ask of a potential vendor if you re adopting a cloud solution Phil Wilkins Enterprise Integration Architect Specsavers Thomas Erl s text provides a unique and comprehensive perspective on cloud design patterns that is clearly and concisely explained for the technical professional and layman alike It is an informative knowledgeable and powerful insight that may guide cloud experts in achieving extraordinary results based on extraordinary expertise identified in this text I will use this text as a resource in future cloud designs and architectural considerations Dr Nancy M Landreville CEO CISO NML Computer Consulting The Definitive Guide to Cloud Architecture and Design Best selling service technology author Thomas Erl has brought together the de facto catalog of design patterns for modern cloud based architecture and solution design More than two years in development this book s 100 patterns illustrate proven solutions to common cloud challenges and requirements Its patterns are supported by rich visual documentation including 300 diagrams The authors address topics covering scalability elasticity reliability resiliency recovery data management storage virtualization monitoring provisioning administration and much more Readers will further find detailed coverage of cloud security from networking and storage safeguards to identity systems trust assurance and auditing This book s unprecedented technical depth makes it a must have resource for every cloud technology architect solution designer developer administrator and manager Topic Areas Enabling ubiquitous on demand scalable network access to shared pools of

configurable IT resources Optimizing multitenant environments to efficiently serve multiple unpredictable consumers Using elasticity best practices to scale IT resources transparently and automatically Ensuring runtime reliability operational resiliency and automated recovery from any failure Establishing resilient cloud architectures that act as pillars for enterprise cloud solutions Rapidly provisioning cloud storage devices resources and data with minimal management effort Enabling customers to configure and operate custom virtual networks in SaaS PaaS or IaaS environments Efficiently provisioning resources monitoring runtimes and handling day to day administration Implementing best practice security controls for cloud service architectures and cloud storage Securing on premise Internet access external cloud connections and scaled VMs Protecting cloud services against denial of service attacks and traffic hijacking Establishing cloud authentication gateways federated cloud authentication and cloud key management Providing trust attestation services to customers Monitoring and independently auditing cloud security Solving complex cloud design problems with compound super patterns

Evolutionary Approaches for Load Balancing in Cloud Computing Subhadarshini Mohanty,2022-10-12 Introduction 1 1 Cloud computing at a glance The advancement in Information and communication technology has evolved many computing paradigms 1 2 Cloud computing is a well known technology among them The main backbone of cloud computing is the combination and advancement of system technologies especially hardware internet technologies distributed computing and system management 3 In distributed computing the resources are distributed worldwide   Information Technology Applications in Industry II Prasad Yarlagadda,Su Fen Yang,Keon Myung Lee,2013-09-03 Selected peer reviewed papers from the 2013 2nd International Conference on Information Technology and Management Innovation ICITMI 2013 July 23 24 2013 Zhuhai China   **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

   Cloud Computing Thomas Erl,Ricardo Puttini,Zaigham Mahmood,2013-05-02 Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways To successfully build upon integrate with or even create a cloud environment requires an understanding of its common inner mechanics architectural layers and models as well as an understanding of the business and economic factors that result from the adoption and real world use of cloud based services In Cloud Computing Concepts Technology Architecture Thomas Erl one of the world s top selling IT authors teams up with cloud computing experts and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts models technology mechanisms and technology architectures all from an industry centric and vendor neutral point of view In doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing platforms and solutions Subsequent to technology centric coverage the book proceeds to establish business centric models and metrics that allow for the financial assessment of cloud based IT resources and their comparison to those hosted on traditional IT enterprise premises Also provided are templates and formulas for calculating SLA related quality of service values and numerous explorations of the SaaS PaaS and IaaS delivery models With more than 260 figures 29 architectural models and 20 mechanisms this indispensable guide provides a comprehensive education of cloud computing essentials that will never leave your side   The 10th International Conference on Science and Technology (ICST) Ganjar Alfian,Unan Yusmaniar Oktiawati,Yuris Mulya Saputra,Cecep Pratama,2025-10-13 Selected peer reviewed full text papers from the 10th International Conference on Science and Technology ICST UGM 2024 Selected peer reviewed full text papers from the 10th International Conference on Science and Technology ICST UGM 2024 October 23 24 2024 Yogyakarta Indonesia   **Dynamic Load Balancing in Cloud Computing Platform** N. A. Joshi,2020 The cloud computing platform has played significant role behind the exponential growth of modern IT industry More and more organizations individuals from various sectors of society are directory or indirectly consuming cloud computing platform Such rising demand for cloud based computing resources has generated requirement of optimized resource management and load balancing Extensive research work is taking place for efficient resource management and load balancing A dynamic approach for virtual machine load balancing is presented here The load balancing mechanism presented here offers better efficiency due to its multi threaded approach   Official Google Cloud Certified Associate Cloud Engineer Study Guide Dan Sullivan,2019-04-16 The Only Official Google Cloud Study Guide The Official Google Cloud Certified Associate Cloud Engineer Study Guide provides everything you need to prepare for this

important exam and master the skills necessary to land that coveted Google Cloud Engineering certification Beginning with a pre book assessment quiz to evaluate what you know before you begin each chapter features exam objectives and review questions plus the online learning environment includes additional complete practice tests Written by Dan Sullivan a popular and experienced online course author for machine learning big data and Cloud topics Official Google Cloud Certified Associate Cloud Engineer Study Guide is your ace in the hole for deploying and managing Google Cloud Services Select the right Google service from the various choices based on the application to be built Compute with Cloud VMs and managing VMs Plan and deploying storage Network and configure access and security Google Cloud Platform is a leading public cloud that provides its users to many of the same software hardware and networking infrastructure used to power Google services Businesses organizations and individuals can launch servers in minutes store petabytes of data and implement global virtual clouds with the Google Cloud Platform Certified Associate Cloud Engineers have demonstrated the knowledge and skills needed to deploy and operate infrastructure services and networks in the Google Cloud This exam guide is designed to help you understand the Google Cloud Platform in depth so that you can meet the needs of those operating resources in the Google Cloud   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

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