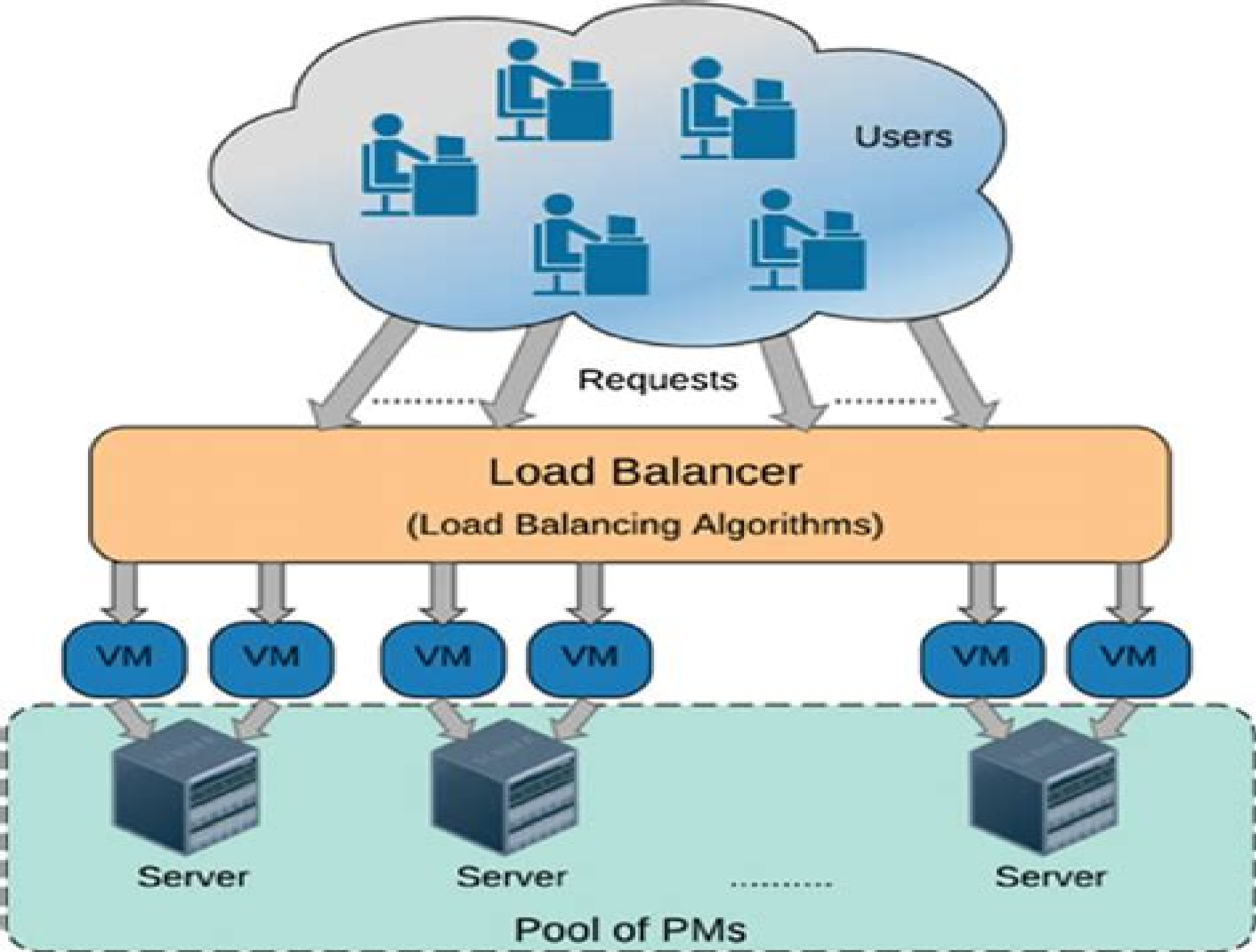




Load Balancing In Cloud Computing

Derek DeJonghe, Arlan Nugara



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.

Anticipatory Models of Load Balancing in Cloud Computing Shahrzad Aslanzadeh, 2016 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 energy efficient. The state of the art approaches are reviewed for techniques, improvements, and consideration of performance effects.

Performance Study of Load Balancing Algorithm in Cloud Computing Zhnova Adnan Obaid, 2017 Cloud computing is one of the information technology's latest developments 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 amounts of virtualized resources, scalable services, and storage services via using the Internet. Load balancing is an important part of the 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 amounts 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 the best ways for resource utilization and an efficient load balancing algorithm.

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

Cloud Computing Martin Gilje Jaatun,Gansen Zhao,Chunming Rong,2009-11-24 Cloud computing was a cloud technology pioneered by Amazon for a long time due to its software technology that is based on the online shopping platform After Google Microsoft also follow up and this technology in fact already exists in our lives and applications continue to expand become an integral part of life With the rapid development of the Internet and the demand for high speed computing of mobile devices the simplest cloud computing technology has been widely used in online services such as search engine webmail and so on Users can get a lot of information by simply entering a simple instruction Further cloud computing is not only for data search and analysis function but also can be used in the biological sciences such as analysis of cancer cells analysis of DNA structure gene mapping sequencing in the future more Smart phone GPS and other mobile devices through the cloud computing to develop more application service

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

The Proceedings of International Conference on Cloud Computing and eGovernance 2014 Kokula Krishna Hari K,Saikishore Elangovan,2014-06-18 ICCCEG 2015 is a main annual research conference aimed at presenting current research being carried out The idea of the conference is for the scientists scholars engineers and students from the Universities all around the world and the industry to present ongoing research activities and hence to foster research relations between the Universities and the industry

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

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

Advanced Computing Techniques for Optimization in Cloud H S Madhusudhan,Punit Gupta,Pradeep Singh Rawat,2024-09-11 This book focuses on the current trends in research and analysis of virtual machine placement in a cloud data center It discusses the integration of machine learning models and metaheuristic approaches for placement techniques Taking into consideration the challenges of energy efficient resource management in cloud data centers it emphasizes upon computing resources being suitably utilised to serve application workloads in order to reduce energy utilisation while maintaining apt performance This book provides information on fault tolerant mechanisms in the cloud and provides an outlook on task scheduling techniques Focuses on virtual machine placement and migration techniques for cloud data centers Presents the role of machine learning and metaheuristic approaches for optimisation in cloud computing services Includes application of placement techniques for quality of service performance and reliability improvement Explores data center resource management load balancing and orchestration using machine learning techniques Analyses dynamic and scalable resource scheduling with a focus on resource management The text is for postgraduate students professionals and academic researchers working in the fields of computer science and information technology

High-Performance Computing and Big

Data Analysis Lucio Grandinetti, Seyedeh Leili Mirtaheri, Reza Shahbazian, 2019-10-19 This book constitutes revised and selected papers from the Second International Congress on High Performance Computing and Big Data Analysis TopHPC 2019 held in Tehran Iran in April 2019 The 37 full papers and 2 short papers presented in this volume were carefully reviewed and selected from a total of 103 submissions The papers in the volume are organized according to the following topical headings deep learning big data analytics Internet of Things data mining neural network and genetic algorithms performance issues and quantum computing

Load Balancing in Multi-cellular 4G Using Cloud Computing Ravyar Jasim Hamd, 2017 Cloud computing is a technology which enables the sharing of hardware and software resources Service models of the cloud computing are Software as a Service Platform as a service and Infrastructure as a Service Cloud computing is evolving with the system of telecommunication in parallel The integration of mobile and wireless networks with cloud computing will offer ubiquitous services anytime and anywhere to the users However since the number of mobile devices are increasing the demand for services located on servers in the cloud computing will increase too In order to deal with such situation load balancing is a prominent solution to distribute the load equally to the servers through the use of different types of load balancing algorithms In this thesis the system of telecommunication used to be integrated with cloud computing is the LTE or 4G This system is widely deployed and its integration with cloud computing will raise so many challenges one of the most important one is how to load balance the traffic generated in multi cellular LTE on the servers located in the cloud In this thesis some load balancing algorithms were used in order to solve the problem of congestions in the networks through a load balancer In order to investigate the performance of these algorithms Riverbed network simulator is used Some performance parameters were studied such as CPU utilization on the server user equipments and end to end delay to the servers As well as the case of failure of the servers in cloud computing is studied especially its effect on the ongoing applications represented by http application is analyzed

Advances in Data-Driven Computing and Intelligent Systems Jagdish Chand Bansal, Snehanishu Saha, Carlos A. Coello Coello, Hemant Rathore, 2025-09-26 This book is a collection of best selected research papers presented at the International Conference on Advances in Data driven Computing and Intelligent Systems ADCIS 2024 held at BITS Pilani K K Birla Goa Campus Goa India during September 20 21 2024 It includes state of the art research work in the cutting edge technologies in the field of data science and intelligent systems The book presents data driven computing it is a new field of computational analysis which uses provided data to directly produce predictive outcomes The book is useful for academicians research scholars and industry persons

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 9th International 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 The 55 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: A Hands-On Approach Arshdeep Bahga,Vijay Madisetti,2013-12-09 About the Book Recent industry surveys expect the cloud computing services market to be in excess of 20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone In addition since a majority of existing information technology IT jobs is focused on maintaining legacy in house systems the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry However there are very few educational options available in the area of cloud computing beyond vendor specific training by cloud providers themselves Cloud computing courses have not found their way yet into mainstream college curricula This book is written as a textbook on cloud computing for educational programs at colleges It can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and employee training programs The typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics STEM fields We have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world cloud applications Additional support is available at the book s website www.cloudcomputingbook.info Organization The book is organized into three main parts Part I covers technologies that form the foundations of cloud computing These include topics such as virtualization load balancing scalability elasticity deployment and replication Part II introduces the reader to the design programming aspects of cloud computing Case studies on design and implementation of several cloud applications in the areas such as image processing live streaming and social networks analytics are provided Part III introduces the reader to specialized aspects of cloud computing including cloud application benchmarking cloud security multimedia applications and big data analytics Case studies in areas such as IT healthcare transportation networking and education are provided

Cloud Computing Technology Ltd. Huawei Technologies Co.,2022-10-04 This open access book introduces cloud computing and related technologies from the concept technology and architecture of cloud computing combined with typical application cases of cloud provides students with a more complete knowledge framework in the field of cloud computing and lays the foundation for future research development and further study in cloud computing big data and other related fields As the world s leading provider of ICT information and communication technology infrastructure and intelligence terminals Huawei s products are already available in a number of

areas including connectivity security wireless storage cloud computing intelligent computing and artificial intelligence

Rising Threats in Expert Applications and Solutions Vijay Singh Rathore, Nilanjan Dey, Vincenzo Piuri, Rosalina Babo, Zdzislaw Polkowski, João Manuel R. S. Tavares, 2020-10-01 This book presents high quality peer reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020 held at IIS University Jaipur Rajasthan India on January 17 19 2020 Featuring innovative ideas from researchers academics industry professionals and students the book covers a variety of topics including expert applications and artificial intelligence machine learning advanced web technologies like IoT big data and cloud computing in expert applications information and cybersecurity threats and solutions multimedia applications in forensics security and intelligence advances in app development management practices for expert applications and social and ethical aspects of expert applications in applied sciences

Proceedings of the International Conference on Cognitive and Intelligent Computing Amit Kumar, Gheorghita Ghinea, Suresh Merugu, Takako Hashimoto, 2022-10-31 This book presents original peer reviewed select articles from the International Conference on Cognitive Intelligent Computing ICCIC 2021 held on December 11 12 2021 at Hyderabad India The proceedings has cutting edge Research outcome related to Machine learning in control applications Soft computing Pattern Recognition Decision Support Systems Text analytics and NLP Statistical Learning Neural Network Learning Learning Through Fuzzy Logic Learning Through Evolution Evolutionary Algorithms Reinforcement Learning Multi Strategy Learning Cooperative Learning Planning And Learning Multi Agent Learning Online And Incremental Learning Scalability Of Learning Algorithms Inductive Learning Inductive Logic Programming Bayesian Networks Support Vector Machines Case Based Reasoning Multi Agent Systems Human Computer Interaction Data Mining and Knowledge Discovery Knowledge Management and Networks Data Intensive Computing Architecture Medicine Health Bioinformatics and Systems Biology Industrial and Engineering Applications Security Applications Smart Cities Game Playing and Problem Solving Intelligent Virtual Environments Economics Business And Forecasting Applications Articles in the book are carefully selected on the basis of their application orientation The content is expected to be especially useful for Professionals Researchers Research students working in the area of cognitive and intelligent computing

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

Reviewing **Load Balancing In Cloud Computing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Load Balancing In Cloud Computing**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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