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Cloud Computing

Data-Intensive Computing and Scheduling



Frédéric Magoulès, Jie Pan,
and Fei Teng

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Cloud Computing Data Intensive Computing And Scheduling Chapman Hallcrc Numerical Analysis And Scientific Computing Series

C. Catlett, W. Gentzsch, L. Grandinetti



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Cloud Computing Frederic Magoules,Jie Pan,Fei Teng,2016-04-19 As more and more data is generated at a faster than ever rate processing large volumes of data is becoming a challenge for data analysis software Addressing performance issues Cloud Computing Data Intensive Computing and Scheduling explores the evolution of classical techniques and describes completely new methods and innovative algorithms The *Cloud Computing* Frederic Magoules,Jie Pan,Fei Teng,2016-04-19 As more and more data is generated at a faster than ever rate processing large volumes of data is becoming a challenge for data analysis software Addressing performance issues Cloud Computing Data Intensive Computing and Scheduling explores the evolution of classical techniques and describes completely new methods and innovative algorithms The **CLOUD COMPUTING** FREDERIC. PAN MAGOULES (JIE. TENG, FEI.),2023 **Data-Intensive Computing** Ian Gorton,Deborah K. Gracio,2012-10-29 The world is awash with digital data from social networks blogs business science and engineering Data intensive computing facilitates understanding of complex problems that must process massive amounts of data Through the development of new classes of software algorithms and hardware data intensive applications can provide timely and meaningful analytical results in response to exponentially growing data complexity and associated analysis requirements This emerging area brings many challenges that are different from traditional high performance computing This reference for computing professionals and researchers describes the dimensions of the field the key challenges the state of the art and the characteristics of likely approaches that future data intensive problems will require Chapters cover general principles and methods for designing such systems and for managing and analyzing the big data sets of today that live in the cloud and describe example applications in bioinformatics and cybersecurity that illustrate these principles in practice

Cloud Computing for Data-Intensive Applications Xiaolin Li,Judy Qiu,2014-12-02 This book presents a range of cloud computing platforms for data intensive scientific applications It covers systems that deliver infrastructure as a service including HPC as a service virtual networks as a service scalable and reliable storage algorithms that manage vast cloud resources and applications runtime and programming models that enable pragmatic programming and implementation toolkits for eScience applications Many scientific applications in clouds are also introduced such as bioinformatics biology weather forecasting and social networks Most chapters include case studies Cloud Computing for Data Intensive Applications targets advanced level students and researchers studying computer science and electrical engineering Professionals working in cloud computing networks databases and more will also find this book useful as a reference Applications of Cloud Computing Prerna Sharma,Moolchand Sharma,Mohamed Elhoseny,2020-11-12 In the era of the Internet of Things and with the explosive worldwide growth of electronic data volume and associated need of processing analysis and storage of such a humongous amount of data it has now become mandatory to exploit the power of massively parallel architecture for fast

computation Cloud computing provides a cheap source of such a computing framework for a large volume of data for real time applications It is therefore not surprising to see that cloud computing has become a buzzword in the computing fraternity over the last decade Applications of Cloud Computing Approaches and Practices lays a good foundation for the core concepts and principles of cloud computing applications walking the reader through the fundamental ideas with expert ease The book progresses on the topics in a step by step manner It reinforces theory with a full fledged pedagogy designed to enhance students understanding and offer them a practical insight into the applications of it It is a valuable source of knowledge for researchers engineers practitioners and graduate and doctoral students working in the field of cloud computing It will also be useful for faculty members of graduate schools and universities

Big Data Kuan-Ching Li,Hai Jiang,Laurence T. Yang,Alfredo Cuzzocrea,2015-09-15 As today s organizations are capturing exponentially larger amounts of data than ever now is the time for organizations to rethink how they digest that data Through advanced algorithms and analytics techniques organizations can harness this data discover hidden patterns and use the newly acquired knowledge to achieve competitive advantages Presenting the contributions of leading experts in their respective fields Big Data Algorithms Analytics and Applications bridges the gap between the vastness of Big Data and the appropriate computational methods for scientific and social discovery It covers fundamental issues about Big Data including efficient algorithmic methods to process data better analytical strategies to digest data and representative applications in diverse fields such as medicine science and engineering The book is organized into five main sections Big Data Management considers the research issues related to the management of Big Data including indexing and scalability aspects Big Data Processing addresses the problem of processing Big Data across a wide range of resource intensive computational settings Big Data Stream Techniques and Algorithms explores research issues regarding the management and mining of Big Data in streaming environments Big Data Privacy focuses on models techniques and algorithms for preserving Big Data privacy Big Data Applications illustrates practical applications of Big Data across several domains including finance multimedia tools biometrics and satellite Big Data processing Overall the book reports on state of the art studies and achievements in algorithms analytics and applications of Big Data It provides readers with the basis for further efforts in this challenging scientific field that will play a leading role in next generation database data warehousing data mining and cloud computing research It also explores related applications in diverse sectors covering technologies for media data communication elastic media data storage cross network media data fusion and SaaS

Adaptive Resource Management and Scheduling for Cloud Computing Florin Pop,Maria Potop-Butucaru,2016-01-07 This book constitutes the thoroughly refereed post conference proceedings of the Second International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing ARMS CC 2015 held in Conjunction with ACM Symposium on Principles of Distributed Computing PODC 2015 in Donostia San Sebasti n Spain in July 2015 The 12 revised full papers including 1 invited paper were carefully reviewed and selected from 24 submissions The

papers have identified several important aspects of the problem addressed by ARMS CC self and autonomous cloud systems cloud quality management and service level agreement SLA scalable computing mobile cloud computing cloud computing techniques for big data high performance cloud computing resource management in big data platforms scheduling algorithms for big data processing cloud composition federation bridging and bursting cloud resource virtualization and composition load balancing and co allocation fault tolerance reliability and availability of cloud systems Cloud Computing Dan C. Marinescu,2013-05-30 Cloud Computing Theory and Practice provides students and IT professionals with an in depth analysis of the cloud from the ground up Beginning with a discussion of parallel computing and architectures and distributed systems the book turns to contemporary cloud infrastructures how they are being deployed at leading companies such as Amazon Google and Apple and how they can be applied in fields such as healthcare banking and science The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization resource management and the right amount of networking support including content delivery networks and storage area networks Developers will find a complete introduction to application development provided on a variety of platforms Learn about recent trends in cloud computing in critical areas such as resource management security energy consumption ethics and complex systems Get a detailed hands on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large scale distributed computing

Advanced Computing Techniques for Optimization in Cloud ,2024-09 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 meta heuristic 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 meta heuristic 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 *Computation and Storage in the Cloud* Dong Yuan,Yun Yang,Jinjun Chen,2012-12-31 Computation and Storage in the Cloud is the first comprehensive and systematic work investigating the issue of computation and storage trade off in the cloud in order to reduce the overall application cost Scientific applications

are usually computation and data intensive where complex computation tasks take a long time for execution and the generated datasets are often terabytes or petabytes in size Storing valuable generated application datasets can save their regeneration cost when they are reused not to mention the waiting time caused by regeneration However the large size of the scientific datasets is a big challenge for their storage By proposing innovative concepts theorems and algorithms this book will help bring the cost down dramatically for both cloud users and service providers to run computation and data intensive scientific applications in the cloud Covers cost models and benchmarking that explain the necessary tradeoffs for both cloud providers and users Describes several novel strategies for storing application datasets in the cloud Includes real world case studies of scientific research applications Covers cost models and benchmarking that explain the necessary tradeoffs for both cloud providers and users Describes several novel strategies for storing application datasets in the cloud Includes real world case studies of scientific research applications

Optimized Cloud Resource Management and Scheduling Wenhong Dr. Tian, Yong Dr. Zhao, 2014-10-15 Optimized Cloud Resource Management and Scheduling identifies research directions and technologies that will facilitate efficient management and scheduling of computing resources in cloud data centers supporting scientific industrial business and consumer applications It serves as a valuable reference for systems architects practitioners developers researchers and graduate level students Explains how to optimally model and schedule computing resources in cloud computing Provides in depth quality analysis of different load balance and energy efficient scheduling algorithms for cloud data centers and Hadoop clusters Introduces real world applications including business scientific and related case studies Discusses different cloud platforms with real test bed and simulation tools

Cloud Computing with e-Science Applications Olivier Terzo, Lorenzo Mossucca, 2017-12-19 The amount of data in everyday life has been exploding This data increase has been especially significant in scientific fields where substantial amounts of data must be captured communicated aggregated stored and analyzed Cloud Computing with e Science Applications explains how cloud computing can improve data management in data heavy fields such as bioinformatics earth science and computer science The book begins with an overview of cloud models supplied by the National Institute of Standards and Technology NIST and then Discusses the challenges imposed by big data on scientific data infrastructures including security and trust issues Covers vulnerabilities such as data theft or loss privacy concerns infected applications threats in virtualization and cross virtual machine attack Describes the implementation of workflows in clouds proposing an architecture composed of two layers platform and application Details infrastructure as a service IaaS platform as a service PaaS and software as a service SaaS solutions based on public private and hybrid cloud computing models Demonstrates how cloud computing aids in resource control vertical and horizontal scalability interoperability and adaptive scheduling Featuring significant contributions from research centers universities and industries worldwide Cloud Computing with e Science Applications presents innovative cloud migration methodologies applicable to a variety of fields where large data

sets are produced The book provides the scientific community with an essential reference for moving applications to the cloud

Cloud Computing Nick Antonopoulos, Lee Gillam, 2017-06-02 This practically focused reference presents a comprehensive overview of the state of the art in Cloud Computing and examines the potential for future Cloud and Cloud related technologies to address specific industrial and research challenges This new edition explores both established and emergent principles techniques protocols and algorithms involved with the design development and management of Cloud based systems The text reviews a range of applications and methods for linking Clouds undertaking data management and scientific data analysis and addressing requirements both of data analysis and of management of large scale and complex systems This new edition also extends into the emergent next generation of mobile telecommunications relating network function virtualization and mobile edge Cloud Computing as supports Smart Grids and Smart Cities As with the first edition emphasis is placed on the four quality of service cornerstones of efficiency scalability robustness and security

Cloud Computing for Scientific Research Jie Xiong, 2018-08-24 I introduce the cloud computing fundamentals architecture of layers and scientific services on the cloud firstly Then I introduce several typical commercial cloud computing platforms such as Amazon Cloud Computing Microsoft Azure and Google Cloud Platform Lastly I discuss the scientific cloud computing based on these three commercial cloud computing platforms

Optimized Cloud Based Scheduling Rong Kun Jason Tan, John A. Leong, Amandeep S. Sidhu, 2018-02-24 This book presents an improved design for service provisioning and allocation models that are validated through running genome sequence assembly tasks in a hybrid cloud environment It proposes approaches for addressing scheduling and performance issues in big data analytics and showcases new algorithms for hybrid cloud scheduling Scientific sectors such as bioinformatics astronomy high energy physics and Earth science are generating a tremendous flow of data commonly known as big data In the context of growing demand for big data analytics cloud computing offers an ideal platform for processing big data tasks due to its flexible scalability and adaptability However there are numerous problems associated with the current service provisioning and allocation models such as inefficient scheduling algorithms overloaded memory overheads excessive node delays and improper error handling of tasks all of which need to be addressed to enhance the performance of big data analytics

Handbook of Scheduling Joseph Y-T. Leung, 2004-04-27 This handbook provides full coverage of the most recent and advanced topics in scheduling assembling researchers from all relevant disciplines to facilitate new insights Presented in six parts these experts provides introductory material complete with tutorials and algorithms then examine classical scheduling problems Part 3 explores scheduling models that originate in areas such as computer science operations research The following section examines scheduling problems that arise in real time systems Part 5 discusses stochastic scheduling and queueing networks and the final section discusses a range of applications in a variety of areas from airlines to hospitals

Cloud Computing and Big Data C. Catlett, W. Gentzsch, L. Grandinetti, 2013-10-22 Cloud computing offers many advantages to researchers and engineers who

need access to high performance computing facilities for solving particular compute intensive and or large scale problems but whose overall high performance computing HPC needs do not justify the acquisition and operation of dedicated HPC facilities There are however a number of fundamental problems which must be addressed such as the limitations imposed by accessibility security and communication speed before these advantages can be exploited to the full This book presents 14 contributions selected from the International Research Workshop on Advanced High Performance Computing Systems held in Cetraro Italy in June 2012 The papers are arranged in three chapters Chapter 1 includes five papers on cloud infrastructures while Chapter 2 discusses cloud applications The third chapter in the book deals with big data which is nothing new large scientific organizations have been collecting large amounts of data for decades but what is new is that the focus has now broadened to include sectors such as business analytics financial analyses Internet service providers oil and gas medicine automotive and a host of others This book will be of interest to all those whose work involves them with aspects of cloud computing and big data applications

Cloud Computing Mr. Rohit Manglik, 2024-07-13 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Advanced Research on Cloud Computing Design and Applications Aljawarneh, Shadi, 2015-09-23 Modern society requires a specialized persistent approach to IT service delivery Cloud computing offers the most logical answer through a highly dynamic and virtualized resource made available by an increasing number of service providers Advanced Research on Cloud Computing Design and Applications shares the latest high quality research results on cloud computing and explores the broad applicability and scope of these trends on an international scale venturing into the hot button issue of IT services evolution and what we need to do to be prepared for future developments in cloud computing This book is an essential reference source for researchers and practitioners in the field of cloud computing as well as a guide for students academics or anyone seeking to learn more about advancement in IT services This publication features chapters covering a broad range of relevant topics including cloud computing for e government cloud computing in the public sector security in the cloud hybrid clouds and outsourced data IT service personalization and supply chain in the cloud

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