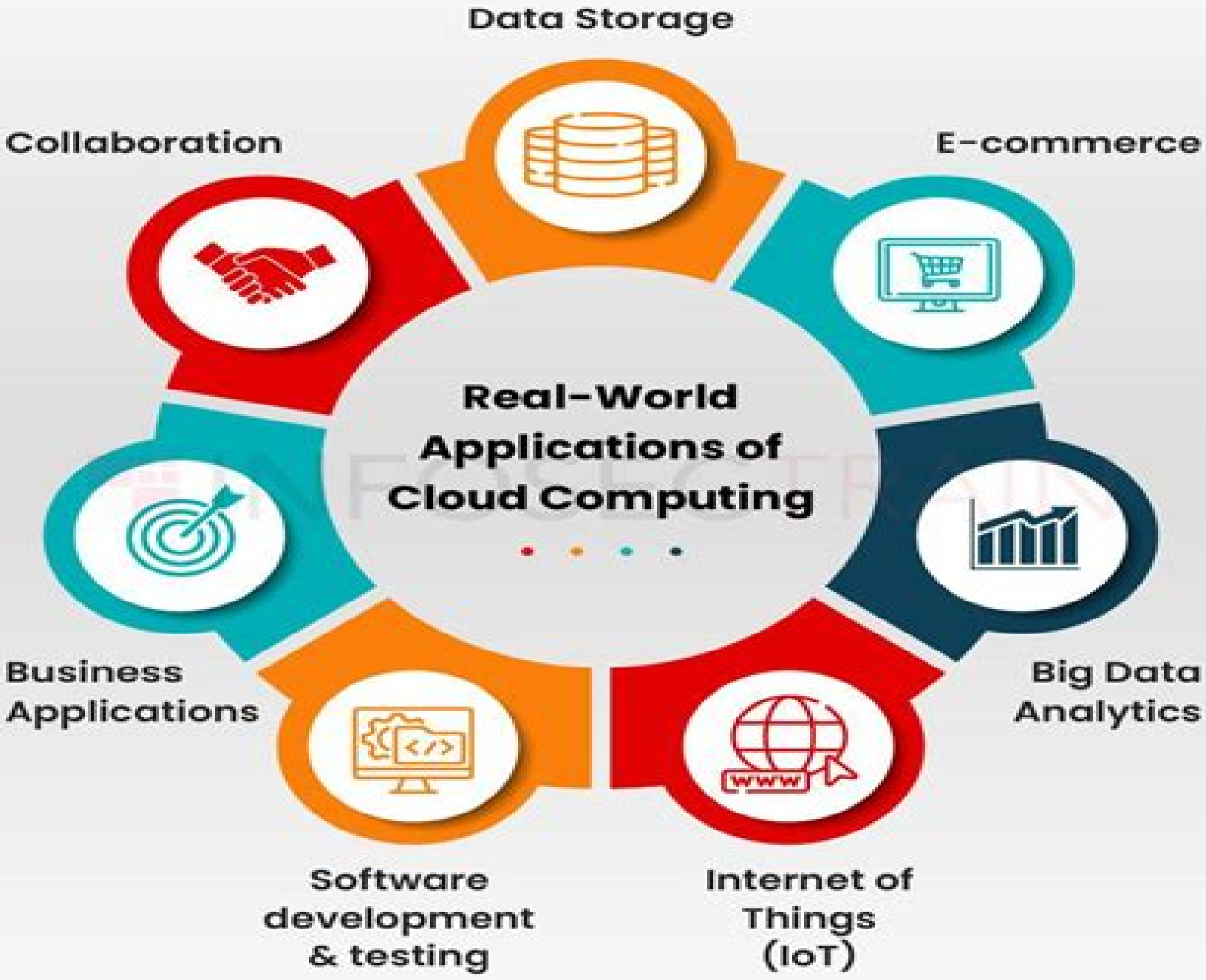
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Cloud Computing For Data Intensive Applications

Kosar, Tevfik

Cloud Computing For Data Intensive Applications:

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 *Handbook of Data Intensive Computing* Borko Furht,Armando Escalante,2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a referencefor practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors **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 **Data Intensive Computing Applications for Big Data** Mamta Mittal,Valentina Emilia Balas,D. Jude Hemanth,Raghvendra Kumar,2018-01-15 The book Data Intensive Computing Applications for Big Data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms It brings together researchers to report their latest results or progress in the development of the above mentioned areas Since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings The book is intended as a reference work for advanced undergraduates and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and

distributed computing and explains didactically many of the core concepts of these approaches for practical applications It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with privacy issues and the challenges faced in a data intensive cloud computing environment The book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing **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

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 **Green, Pervasive, and Cloud Computing** Rodrigo Miani,Lasaro Camargos,Bruno Zarpelão,Erika Rosas,Rafael Pasquini,2019-05-17 This book constitutes the proceedings of the 14th International Conference on Green Pervasive and Cloud Computing GPC 2019 held in Uberl ndia Brazil in May 2019 The 17 full papers included in this volume were carefully reviewed and selected from 38 initial submissions They are organized in the following topical sections machine learning Internet of Things and mobility cloud and related technologies

Improvement of Data Intensive Applications Running on Cloud Computing Clusters Ibrahim Adel Ibrahim,2019

MapReduce designed by Google is widely used as the most popular distributed programming model in cloud environments Hadoop an open source implementation of MapReduce is a data management framework on large cluster of commodity machines to handle data intensive applications Many famous enterprises including Facebook Twitter and Adobe have been using Hadoop for their data intensive processing needs Task stragglers in MapReduce jobs dramatically impede job execution on massive datasets in cloud computing systems This impedance is due to the uneven distribution of input data and computation load among cluster nodes heterogeneous data nodes data skew in reduce phase resource contention situations and network configurations All these reasons may cause delay failure and the violation of job completion time One of the key issues that can significantly affect the performance of cloud computing is the computation load balancing among cluster nodes Replica placement in Hadoop distributed file system plays a significant role in data availability and the balanced utilization of clusters In the current replica placement policy RPP of Hadoop distributed file system HDFS the replicas of data blocks cannot be evenly distributed across cluster s nodes Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management Kosar, Tevfik,2012-01-31 This book focuses on the challenges of distributed systems imposed by the data intensive applications and on the different state of the art solutions proposed to overcome these challenges Provided by publisher **Cloud Computing** Rajkumar Buyya,James Broberg,Andrzej M. Goscinski,2010-12-17 The primary purpose of this book is to capture the state of the art in Cloud Computing technologies and applications The book will also aim to identify potential research directions and technologies that will facilitate creation a global market place of cloud computing services supporting scientific industrial business and consumer applications We expect the book to serve as a reference for larger audience such as systems architects practitioners developers new researchers and graduate level students This area of research is relatively recent and as such has no existing reference book that addresses it This book will be a timely contribution to a field that is gaining considerable research interest momentum and is expected to be of increasing interest to commercial developers The book is targeted for professional computer science developers and graduate students especially at Masters level As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years its knowledge will help position our readers at the forefront of the field **Mastering Cloud Computing** Rajkumar Buyya,Christian Vecchiola,S.Thamarai Selvi,2013-04-05 Mastering Cloud Computing is designed for undergraduate students learning to develop cloud computing applications Tomorrow s applications won t live on a single computer but will be deployed from and reside on a virtual server accessible anywhere any time Tomorrow s application developers need to understand the requirements of building apps for these virtual systems including concurrent programming high performance computing and data intensive systems The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization thread programming task programming and map reduce

programming There are examples demonstrating all of these and more with exercises and labs throughout Explains how to make design choices and tradeoffs to consider when building applications to run in a virtual cloud environment Real world case studies include scientific business and energy efficiency considerations **Advances in Science and Engineering II** Robin G. Qiu,Yong Feng Ju,2011-10-27 Selected peer reviewed papers from the 2011 WASE Global Conference on Science Engineering GCSE 2011 December 10 11 2011 Taiyuan Xian China Web Services and Formal Methods Emilio Tuosto,Chun Ouyang,2014-06-24 This book constitutes the thoroughly refereed post workshop proceedings of the 10th International Workshop on Web Services and Formal Methods WS FM 2013 held in Beijing China in August 2013 The 8 papers presented were carefully reviewed and selected from 19 submissions They cover aspects such as control flow relations using Petri nets consistency of cloud stores model checking model drives design analysis of context aware systems

Building Scalable Data-Intensive Applications Chandani Kaul,2025-01-03 Building Scalable Data Intensive Applications explores the vast landscape of digital data from social networks blogs business science and engineering This book delves into data intensive computing which is essential for understanding and processing massive amounts of data Utilizing the latest software algorithms and hardware data intensive applications deliver timely and meaningful insights addressing the challenges posed by exponentially growing data complexity We provide a comprehensive reference for computing professionals and researchers covering the field s scope key challenges and state of the art approaches required for future data intensive problems Our chapters include general principles and methods for designing and managing systems that analyze vast datasets particularly those stored in the cloud Additionally we explore practical applications in cybersecurity and bioinformatics to illustrate these principles in action Building Scalable Data Intensive Applications is an invaluable resource for anyone looking to navigate and harness the power of data intensive computing **Satisfying Strong Application Requirements in Data-intensive Cloud Computing Environments** ,2012 Intelligent Agents in Data-intensive Computing Joanna Kołodziej,Luís Correia,José Manuel Molina,2015-09-21 This book presents new approaches that advance research in all aspects of agent based models technologies simulations and implementations for data intensive applications The nine chapters contain a review of recent cross disciplinary approaches in cloud environments and multi agent systems and important formulations of data intensive problems in distributed computational environments together with the presentation of new agent based tools to handle those problems and Big Data in general This volume can serve as a reference for students researchers and industry practitioners working in or interested in joining interdisciplinary work in the areas of data intensive computing and Big Data systems using emergent large scale distributed computing paradigms It will also allow newcomers to grasp key concepts and potential solutions on advanced topics of theory models technologies system architectures and implementation of applications in Multi Agent systems and data intensive computing Cost-effective Resource Configurations for Executing Data-intensive Workloads in Public Clouds Rizwan Mian,Queen's University (Kingston,

Ont.). School of Computing,2013 The rate of data growth in many domains is straining our ability to manage and analyze it Consequently we see the emergence of computing systems that attempt to efficiently process data intensive applications or I O bound applications with large data Cloud computing offers infinite resources on demand and on a pay as you go basis As a result it has gained interest for large scale data processing Given this supposedly infinite resource set we need a provisioning process to determine appropriate resources for data processing or workload execution We observe that the prevalent data processing architectures do not usually employ provisioning techniques available in a public cloud and existing provisioning techniques have largely ignored data intensive applications in public clouds In this thesis we take a step towards bridging the gap between existing data processing approaches and the provisioning techniques available in a public cloud such that the monetary cost of executing data intensive workloads is minimized We formulate the problem of provisioning and include constructs to exploit a cloud s elasticity to include any number of resources to host a multi tenant database system prior to execution The provisioning is modeled as a search problem and we use standard search heuristics to solve it We propose a novel framework for resource provisioning in a cloud environment Our framework allows pluggable cost and performance models We instantiate the framework by developing various search algorithms cost and performance models to support the search for an effective resource configuration We consider data intensive workloads that consist of transactional analytical or mixed workloads for evaluation and access multiple database tenants The workloads are based on standard TPC benchmarks In addition the user preferences on response time or throughput are expressed as constraints Our propositions and their results are validated in a real public cloud namely the Amazon cloud The evaluation supports our claim that the framework is an effective tool for provisioning database workloads in a public cloud with minimal dollar cost **BigMobile** Jong Hoon Ahnn,2015 Mobile computing where mobile users continuously gather process and share sensor or application specific data is emerging as a new computing and network paradigm of data sharing in seamless manner The key enablers are the smartphones e g iPhones and Android phones equipped with onboard sensors e g cameras accelerometer compass GPS and various wireless devices e g WiFi 3G 4G LTE and other network standards However despite of all the advances in recent years mobile devices have limited resources for computation memory network and battery Mobile cloud computing MCC is a promising practical approach to relax such constraints in mobile devices for computational intensive applications where computation offloading to virtually unlimited resources in clouds can help them to save the energy consumption Existing offloading algorithms and corresponding MCC systems offload computationally intensive applications to remote cloud servers in a distributed manner However they fail to address challenges in modern data intensive applications where sensor data is continuously harvested and application specific data among users is shared to process or personalize applications For instance modern machine learning ML based applications require the large amount of training data to train a model often require periodic retraining or adaptation based on gathered user s specific profiles and context data For such applications

offloading is not only computationally intensive but data intensive and it requires a seamless interface to upload fetch data to from cloud storage A comprehensive survey provides 15 different perspectives in ten major MCC systems from the viewpoint of data intensive computation offloading Typical MCC surveys often constitute network protocol code rewrite requirement offloading granularity profiling resource monitoring cost model and software preinstallation requirement Our survey differs from typical MCC surveys mainly in several ways scalable big data and computing support and fault tolerance of MCC systems providing features such as parallel offloading multi cloud support disconnected operation reliable message delivery cloud sever scalability and cloud storage access The process of computation offloading is complex In this thesis we tackle it as several subsystem problems First existing MCC systems fail to address multiple cloud settings in computation offloading scenarios The application partitioning and offloading to multiple clouds are formally formulated and solved as an integer linear programming ILP problem The objective function of the partitioning problem makes a set of offloading decision in terms of tradeoffs between mobile execution and cloud execution with respect to energy costs and time cost under the assumption of multi clouds Second existing MCC systems fail to address a wireless network instability problem In order to achieve fault tolerant communication between mobile devices and cloud servers we propose and implement a mechanism that can tolerate unstable network conditions by asynchronous implementation of network binding Third existing MCC systems fail to achieve reliable offloading message delivery where millions of mobile devices submit computation offloading requests and data related requests to clouds To achieve such scalability and reliability we propose a producer consumer based message queue where producers for delivering offloading requests send offloading requests over the network to the cluster which in turn serves them up to consumers The multiple consumers are in charge of submitting the offloaded tasks to cloud resources Eventual reliability is achieved by message partitioning and replication in the message queue system while scalable message delivery is achieved by horizontal scaling of producers consumers and reconfiguring of message partition factor Fourth cloud resource management is another challenging area where researchers put little attention to data intensive application offloading Existing MCC systems are not scalable when dealing with millions of offloading requests as well as data requests For the data intensive application offloading we consider integration to one of the conventional big data systems where a thin mobile client is to access data and to process it from the cloud We propose the fuse of Hadoop based parallel computation offloading to multiple clouds by developing seamless interfaces The integration enables our MCC system to be scalable and reliable in scheduling offloading tasks and in serving data related operations on top of Hadoop We provide a couple of evaluation results in terms of time saving and energy saving based on two types of benchmarks computationally intensive applications and data intensive applications For the former we consider chess game puzzle game cryptographic algorithm and Huffman compression algorithm for the latter we consider the state of the art speech recognition application The evaluation extends a single offloading to parallel offloading The further evaluation of data

intensive computational cloud is performed in several aspects performance comparison of Hadoop version 1 and version 2 Hadoop overhead benefit of file compression and performance of cloud storage to support small large files Finally the performance of the proposed message queue is presented Web-Scale Data Management for the Cloud Wolfgang Lehner,Kai-Uwe Sattler,2013-04-06 The efficient management of a consistent and integrated database is a central task in modern IT and highly relevant for science and industry Hardly any critical enterprise solution comes without any functionality for managing data in its different forms Web Scale Data Management for the Cloud addresses fundamental challenges posed by the need and desire to provide database functionality in the context of the Database as a Service DBaaS paradigm for database outsourcing This book also discusses the motivation of the new paradigm of cloud computing and its impact to data outsourcing and service oriented computing in data intensive applications Techniques with respect to the support in the current cloud environments major challenges and future trends are covered in the last section of this book A survey addressing the techniques and special requirements for building database services are provided in this book as well Scheduling and Management of Data Intensive Application Workflows in Grid and Cloud Computing Environments Suraj Pandey,2010

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Cloud Computing For Data Intensive Applications Introduction

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