

SPRINGER BRIEFS IN COMPUTER SCIENCE

Han Zhao
Xiaolin Li

Resource Management in Utility and Cloud Computing



Springer

Resource Management In Utility And Cloud Computing Springerbriefs In Computer Science

Florin Pop, Maria Potop-Butucaru



Resource Management In Utility And Cloud Computing Springerbriefs In Computer Science:

Resource Management in Utility and Cloud Computing Han Zhao,Xiaolin Li,2013-10-17 This SpringerBrief reviews the existing market oriented strategies for economically managing resource allocation in distributed systems It describes three new schemes that address cost efficiency user incentives and allocation fairness with regard to different scheduling contexts The first scheme taking the Amazon EC2TM market as a case of study investigates the optimal resource rental planning models based on linear integer programming and stochastic optimization techniques This model is useful to explore the interaction between the cloud infrastructure provider and the cloud resource customers The second scheme targets a free trade resource market studying the interactions amongst multiple rational resource traders Leveraging an optimization framework from AI this scheme examines the spontaneous exchange of resources among multiple resource owners Finally the third scheme describes an experimental market oriented resource sharing platform inspired by eBay s transaction model The study presented in this book sheds light on economic models and their implication to the utility oriented scheduling problems

Dynamic Cloud Collaboration Platform Mohammad Mehedi Hassan,Eui-Nam Huh,2012-09-14 Present trends in cloud providers CPs capabilities have given rise to the interest in federating or collaborating clouds thus allowing providers to revel on an increased scale and reach more than that is achievable individually Current research efforts in this context mainly focus on building supply chain collaboration SCC models in which CPs leverage cloud services from other CPs for seamless provisioning Nevertheless in the near future we can expect that hundreds of CPs will compete to offer services and thousands of users will also compete to receive the services to run their complex heterogeneous applications on a cloud computing environment In this open federation scenario existing collaboration models i e SCC are not applicable since they are designed for static environments where a priori agreements among the parties are needed to establish the federation To move beyond these shortcomings Dynamic Cloud Collaboration Platform establishes the basis for developing dynamic advanced and efficient collaborative cloud service solutions that are scalable high performance and cost effective We term the technology for inter connection and inter operation of CPs in open cloud federation as Dynamic Cloud Collaboration DCC in which various CPs small medium and large of complementary service requirements will collaborate dynamically to gain economies of scale and enlargements of their capabilities to meet quality of service QoS requirements of consumers In this context this book addresses four key issues when to collaborate triggering circumstances whom to collaborate with suitable partners how to collaborate architectural model and how to demonstrate collaboration applicability simulation study It also provides solutions which are effective in real environments

Big Data 2.0 Processing Systems Sherif Sakr,2016-08-24 This book provides readers the big picture and a comprehensive survey of the domain of big data processing systems For the past decade the Hadoop framework has dominated the world of big data processing yet recently academia and industry have started to recognize its limitations in several application domains and big data processing scenarios such as the large scale

processing of structured data graph data and streaming data Thus it is now gradually being replaced by a collection of engines that are dedicated to specific verticals e g structured data graph data and streaming data The book explores this new wave of systems which it refers to as Big Data 2 0 processing systems After Chapter 1 presents the general background of the big data phenomena Chapter 2 provides an overview of various general purpose big data processing systems that allow their users to develop various big data processing jobs for different application domains In turn Chapter 3 examines various systems that have been introduced to support the SQL flavor on top of the Hadoop infrastructure and provide competing and scalable performance in the processing of large scale structured data Chapter 4 discusses several systems that have been designed to tackle the problem of large scale graph processing while the main focus of Chapter 5 is on several systems that have been designed to provide scalable solutions for processing big data streams and on other sets of systems that have been introduced to support the development of data pipelines between various types of big data processing jobs and systems Lastly Chapter 6 shares conclusions and an outlook on future research challenges Overall the book offers a valuable reference guide for students researchers and professionals in the domain of big data processing systems Further its comprehensive content will hopefully encourage readers to pursue further research on the subject Internet of Things

Mohammad Ayoub Khan,2022-06-07 The book deals with the conceptual and practical knowledge of the latest tools and methodologies of hardware development for Internet of Things IoT and variety of real world challenges The topics cover the state of the art and future perspectives of IoT technologies where industry experts researchers and academics had shared ideas and experiences surrounding frontier technologies breakthrough and innovative solutions and applications Several aspects of various hardware technologies methodologies and communication protocol such as formal design flow for IoT hardware design approaches for IoT hardware IoT solution reference architectures and Instances simulation modelling and programming framework hardware basics of sensors for IoT configurable processor and technology for IoT and real life examples and studies are critically examined in this book It also identifies key technological facet that supports the relevance of hardware perspective of IoT and discusses the benefits and challenges to dominate the next decades The book serves as an excellent reference for senior undergraduates and graduates in electrical and computer engineering research scholars mobile and wireless communications engineers IT engineers and electronics engineers who need to understand IoT at an in depth level to build and manage IoT solutions Analysis of TCP Performance in Data Center Networks Santosh

Kulkarni,Prathima Agrawal,2013-10-04 This book addresses the need to improve TCP s performance inside data centers by providing solutions that are both practical and backward compatible with standard TCP versions The authors approach this challenge first by deriving an analytical model for TCP s performance under typical data center workload traffic They then discuss some solutions that are designed to improve TCP performance by either proactively detecting network congestion through probabilistic retransmission or by avoiding timeout penalty through dynamic resizing of TCP segments Experimental

results show that each of techniques discussed outperforms standard TCP inside a data center

Ekonomi ve Yönetim Bilimlerinde Güncel Akademik Araştırmalar Mustafa HATİPLER,2020-10-08

Utility-based Resource Management for Cluster Computing Chee Shin Yeo,2008

Adaptive Resource Management and Scheduling for Cloud Computing Florin Pop,Maria Potop-Butucaru,2014-11-25 This book constitutes the thoroughly refereed post conference proceedings of the First International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing ARMS CC 2014 held in Conjunction with ACM Symposium on Principles of Distributed Computing PODC 2014 in Paris France in July 2014 The 14 revised full papers including 2 invited talks were carefully reviewed and selected from 29 submissions and cover topics such as scheduling methods and algorithms services and applications fundamental models for resource management in the cloud

Resource Management in Distributed Systems Anwesha Mukherjee,Debashis De,Rajkumar Buyya,2024-05-31 This book focuses on resource management in distributed computing systems The book presents a collection of original unpublished and high quality research works which report the latest research advances on resource discovery allocation scheduling etc in cloud fog and edge computing The topics covered in the book are resource management in cloud computing edge computing fog computing dew computing resource management in Internet of things resource allocation scheduling monitoring and orchestration in distributed computing systems resource management in 5G network and beyond latency aware resource management energy efficient resource management interoperability and portability security and privacy in resource management reliable resource management trustworthiness in resource management fault tolerance in resource management and simulation related to resource management

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 Sebastián 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

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