Cloud Computing: Applications and Paradigms

The efforts to support large-scale distributed computing have encountered major difficulties over the years. The users of these systems discovered how difficult it was to locate the systems able to run an application. They soon realized that it is equally difficult to scale up and down to accommodate a dynamic load, to recover after a system failure, and to efficiently support checkpoint or restarting procedures.

At the same time, the providers of computing cycles and storage realized the difficulties in managing a large number of systems and providing guarantees for the quality of service. Any economic advantage offered by resource concentration was offset by the cost of management and the relatively low utilization of costly resources.

Cloud computing is very attractive to users for several economic reasons: It requires a very low infrastructure investment because there is no need to assemble and maintain a large-scale system and it has low *utility-based computing costs* because customers are only billed for the infrastructure used. At the same time, users benefit from the potential to reduce the execution time of compute-intensive and data-intensive applications through parallelization. If an application can partition the workload in n segments and spawn n instances of itself, the execution time could be reduced by a factor close to n.

Moreover, because application developers enjoy the advantages of a *just-in-time infrastructure*, they are free to design an application without being concerned with the system where the application will run. Often, an application becomes the victim of its own success, attracting a user population larger than the system can support. Cloud elasticity allows such an application to absorb the additional workload without any effort from application developers.

Cloud computing is also beneficial for the providers of computing cycles because it typically leads to more efficient resource utilization. The future success of cloud computing rests on the ability of companies promoting utility computing to convince an increasingly large segment of the user population of the advantages of network-centric computing and content. This translates into the ability to provide satisfactory solutions to critical aspects of security, scalability, reliability, quality of service, and the requirements enforced by SLAs.

The appeal of cloud computing is its focus on enterprise applications. This clearly differentiates it from the grid computing effort, which was largely focused on scientific and engineering applications. Of course, the other major advantage of the cloud computing approach over grid computing is the concentration of resources in large data centers in a single administrative domain.

It is expected that utility computing providers such as Amazons, Apple, Google, HP, IBM, Microsoft, Oracle, and others will in the future develop application suites to attract customers. Microsoft seems well positioned in the effort to attract customers to its Azure platform since it already has many applications for enterprise customers, while Red Hat and Amazon may choose to stay with their "infrastructure only" approach [27].

Chapter 4 Cloud Computing Applications And Paradigms

Mamta Mittal,Valentina Emilia Balas,D. Jude Hemanth,Raghvendra Kumar

Chapter 4 Cloud Computing Applications And Paradigms:

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 **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 **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 *Essentials of Cloud Computing* K. Chandrasekaran,2014-12-05 Cloud computing accessing computing resources over the Internet is rapidly changing the landscape of information technology Its primary benefits compared to on premise computing models are reduced costs and increased agility and scalability Hence cloud computing is receiving considerable interest among several stakeholders businesses the IT industry application developers researchers and students To successfully embrace this new computing model these stakeholders need to acquire new cloud computing skills and knowledge This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing Presented in an easy to understand style Essentials of Cloud Computing begins with an introduction to basic cloud computing concepts It then covers cloud computing architecture deployment models programming models and cloud service types such as Software as a Service SaaS and Infrastructure as a Service IaaS It also discusses the cloud s networking aspects major service providers open source support and security issues The book concludes with a discussion of several advanced topics such as mobile clouds media clouds and green clouds This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing It includes many case studies programming examples and industry based applications Each chapter concludes with review questions that help readers check their understanding of the presented topics Essentials of Cloud Computing will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds   **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   Advances in AI for Cloud, Edge, and Mobile Computing Applications Shrikaant Kulkarni,P. William,2025-07-08 This new book presents

some exciting advances in AI applications highlighting trends and innovations in edge cloud and mobile computing and how they can be integrated with advanced AI for enhancing services privacy and security It explores algorithms architectures reliable AI powered IoTs and other aspects in networking and applications in diverse frontier areas These state of the art technologies have a comparative advantage in terms of very low latency fast response time low bandwidth cost and improved resilience First focusing on advanced cloud AI services the authors look at a power trading framework of cloud edge computing in an AI bazaar the use of anomaly detection in AI in a cloud fuzzy environment holistic resource management based on AI and sustainable cloud computing the application of AI for enhanced privacy and security in smart environments AI in wireless sensor networks and more The volume also presents advances in state of the art edge AI services along with problems that may be confronted during the application and execution of computing services The chapters discuss AI applications together with cloud edge and mobile computing that serve the areas of e commerce and commercial banking while making use of AI for sustainable human resource management and natural resource management   *Cloud Computing Bible* Barrie Sosinsky,2011-01-11 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   **Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm** Bhadoria, Robin Singh,Chaudhari, Narendra,Tomar, Geetam Singh,Singh, Shailendra,2017-02-14 Web browsing would not be what it is today without the use of Service Oriented Architecture SOA Although much has been written about SOA methodology this emerging platform is continuously under development Exploring Enterprise Service Bus in the Service Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform Featuring relevant topics such as SOA reference architecture grid computing applications complex event computing and java business integration this is an ideal resource for all practitioners academicians graduate students and researchers interested in the discoveries on the relationship that Service Oriented architecture and enterprise service bus share   <u>Digital Transformation in Healthcare 5.0</u> Rishabha Malviya,Sonali Sundram,Rajesh Kumar

Dhanaraj,Seifedine Kadry,2024-05-06 Digital Transformation in Healthcare 5 0 IoT AI and Digital Twin provides a comprehensive overview of the integration of cutting edge technology with healthcare from the Fourth Industrial Revolution 4IR to the introduction of IoT AI and Digital Twin technologies This in depth discussion of the digital revolution expanding the healthcare industry covers a wide range of topics including digital disruption in healthcare delivery the impact of 4IR and Health 4 0 e health services and applications virtual reality s impact on accessible healthcare delivery digital twins and dietary health technologies big data analytics in healthcare systems machine learning models for cost effective healthcare delivery systems affordable healthcare with machine learning enhanced biomedical signal processing with machine learning and data driven AI for information retrieval of biomedical images *A Trusted Cloud Computing With Cryptographic Technique* Raja Praveen.k.n,2013-10-02 Document from the year 2013 in the subject Computer Science Internet New Technologies grade A language English abstract This book focuses on the security issues in Cloud Computing System Cloud Computing is an upcoming paradigm that offers tremendous advantages in economical aspects such as reduced time to market flexible computing capabilities and limitless computing power To use the full potential of the cloud computing data is transferred processed and stored by external cloud providers However data owners are very skeptical to place their data outside their own control sphere This book discusses the security controls to protect data in cloud computing environment using Cryptographic technique Cloud computing provide the way to share distributed resources and services that belong to different organizations Since cloud computing share distributed resources via the network in the open environment thus it makes security problems important for us to develop the cloud computing application In this book we pay attention to the security requirements in cloud computing environment We proposed a method to build a trusted computing environment using cryptographic technique for cloud computing system by integrating the trusted computing platform into cloud computing system Security has become a major concern in cloud computing environment Where the resources are shared by many Users join and leave the cloud dynamically which leads to a serious challenge for the security of shared resources Hence there s a need to establish trust in the cloud so that the users are ensured of their data security We propose a model system in which cloud computing system is combined with trusted computing platform with trusted platform module In this model some important security services including authentication confidentiality data Storage data security and access control are provided in cloud computing system **Mobile Millennium Final Report** Alexandre M. Bayen,Joe Butler (M.S.),Anthony David Patire,2011 **Computer and Communication Networks** Nader F. Mir,2014-12-12 Computer and Communication Networks Second Edition explains the modern technologies of networking and communications preparing you to analyze and simulate complex networks and to design cost effective networks for emerging requirements Offering uniquely balanced coverage of basic and advanced topics it teaches through case studies realistic examples and exercises and intuitive illustrations Nader F Mir establishes a solid foundation in basic networking concepts TCP IP schemes wireless

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Professional Cloud Architect *Journal of the National Institute of Information and Communications Technology* ,2015 **Moving To The Cloud** Geetha Manjunath,Dinkar Sitaram,2011-11-16 Moving to the Cloud provides an in depth introduction to cloud computing models cloud platforms application development paradigms concepts and technologies The authors particularly examine cloud platforms that are in use today They also describe programming APIs and compare the technologies that underlie them The basic foundations needed for developing both client side and cloud side applications covering compute storage scaling data parallelism virtualization MapReduce RIA SaaS and Mashups are covered Approaches to address key challenges of a cloud infrastructure such as scalability availability multi tenancy security and management are addressed The book also lays out the key open issues and emerging cloud standards that will drive the continuing evolution of cloud computing Includes complex case studies of cloud solutions by cloud experts from Yahoo Amazon Microsoft IBM Adobe and HP Labs Presents insights and techniques for creating compelling rich client applications that interact with cloud services Demonstrates and distinguishes features of different cloud platforms using simple to complex API programming examples **CCSP Certified Cloud Security Professional All-in-One Exam Guide, Third Edition** Daniel Carter,2022-11-25 This fully updated self study guide delivers 100% coverage of all topics on the current version of the CCSP exam Thoroughly revised for the 2022 edition of the exam this highly effective test preparation guide covers all six domains within the CCSP Body of Knowledge The book offers clear explanations of every subject on the CCSP exam and features accurate practice questions and real world examples New updated or expanded coverage includes cloud data security DevOps security mobile computing threat modeling paradigms regulatory and legal frameworks and best practices and standards Written by a respected computer security expert CCSP Certified Cloud Security Professional All in One Exam Guide Third Edition is both a powerful study tool and a valuable reference that will serve professionals long after the test To aid in self study each chapter includes exam tips that highlight key information a summary that serves as a quick review of salient points and practice questions that allow you to test your comprehension Special design elements throughout provide insight and call out potentially harmful situations All practice questions match the tone content and format of those on the actual exam Includes access to 300 practice questions in the TotalTesterTM Online customizable test engine Written by an IT security expert and experienced author *Dr. Dobb's Journal* ,2000 **Beginning SharePoint 2013 Development** Steve Fox,Chris Johnson,Donovan Follette,2013-02-18 A complete revision to a popular SharePoint developer s resource Fully updated for SharePoint 2013 this book is an ideal starting place for SharePoint development Covering all the major topics that a new developer needs to know in order to get started this resource contains 100 percent new content and addresses the major overhaul to the SharePoint 2013 platform The team of authors led by Microsoft s Steve Fox presents you with a detailed overview that helps you establish a starting point for development They then walk you through ways to advance your knowledge so that you leverage the new SharePoint 2013 features to build custom solutions Addresses developing managed

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