Mohammad Mehedi Hassan Eui-Nam Huh

Dynamic Cloud Collaboration Platform A Market-Oriented Approach



Dynamic Cloud Collaboration Platform A Market Oriented Approach Springerbriefs In Computer Science

Elisabetta Di Nitto,Peter
Matthews,Dana Petcu,Arnor Solberg

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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 Dynamic Cloud Collaboration Platform Mohammad Mehedi Hassan, Eui-Nam Huh, 2012-09-13 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 Advances in Service-Oriented and Cloud Computing Antonio Celesti, Philipp Leitner, 2016-04-26 This volume contains the technical papers presented in the seven high quality workshops associated with the European Conference on Service Oriented and Cloud Computing ESOCC 2015 held in Taormina Italy in September 2015 Third International Workshop on Cloud for IoT CLIoT 2015 5th International Workshop on Adaptive Services for the Future Internet WAS4FI 2015 Second Workshop on Seamless Adaptive Multi cloud Management of Service Based Applications SeaClouds 2015 First International Workshop on Cloud Adoption and Migration CloudWay 2015 First International Workshop on Digital Enterprise Architecture and Engineering IDEA 2015 First Workshop on Federated Cloud Networking FedCloudNet 2015 Abstracts of the presentations held at the European Projects Forum EU Projects 2015 are included in the back matter of this volume The 25 full papers and 6 short papers were carefully reviewed and selected from 48 submissions They focus on specific topics in service oriented and cloud computing domains such as limits and or advantages of existing cloud solutions Future Internet technologies efficient and adaptive deployment and management of service based applications across multiple clouds novel cloud service migration practices and solutions digitization of enterprises in the cloud computing era **Model-Driven Development and Operation of Multi-Cloud Applications** federated cloud networking services Elisabetta Di Nitto, Peter Matthews, Dana Petcu, Arnor Solberg, 2016-12-22 This books is open access under a CC BY 4 0 license This book summarizes work being undertaken within the collaborative MODAClouds research project which aims to facilitate interoperability between heterogeneous Cloud platforms and remove the constraints of deployment portability and reversibility for end users of Cloud services Experts involved in the project provide a clear overview of the MODAClouds approach and explain how it operates in a variety of applications While the wide spectrum of available Clouds constitutes a vibrant technical environment many early stage issues pose specific challenges from a software engineering perspective MODAClouds will provide methods a decision support system and an open source IDE and run time environment for the high level design early prototyping semiautomatic code generation and automatic deployment of applications on multiple Clouds It will free developers from the need to commit to a fixed Cloud technology stack during software design and offer benefits in terms of cost savings portability of applications and data between Clouds reversibility moving applications and data from Cloud to non Cloud environments risk management quality assurance and flexibility in the development process The Design of Cloud Workflow Systems Xiao Liu, Dong Yuan, Gaofeng Zhang, Wenhao Li, Dahai Cao, Qiang He, Jinjun Chen, Yun Yang, 2011-11-04 Cloud computing is the latest market oriented computing paradigm which brings software design and development into a new era characterized by XaaS i e everything as a service Cloud workflows as typical software applications in the cloud are composed of a set of partially ordered cloud software services to achieve specific goals However

due to the low OoS quality of service nature of the cloud environment the design of workflow systems in the cloud becomes a challenging issue for the delivery of high quality cloud workflow applications To address such an issue this book presents a systematic investigation to the three critical aspects for the design of a cloud workflow system viz system architecture system functionality and quality of service Specifically the system architecture for a cloud workflow system is designed based on the general four layer cloud architecture viz application layer platform layer unified resources layer and fabric layer The system functionality for a cloud workflow system is designed based on the general workflow reference model but with significant extensions to accommodate software services in the cloud The support of QoS is critical for the quality of cloud workflow applications This book presents a generic framework to facilitate a unified design and development process for software components that deliver lifecycle support for different QoS requirements While the general QoS requirements for cloud workflow applications can have many dimensions this book mainly focuses on three of the most important ones viz performance reliability and security In this book the architecture functionality and QoS management of our SwinDeW C prototype cloud workflow system are demonstrated in detail as a case study to evaluate our generic design for cloud workflow systems To conclude this book offers a general overview of cloud workflow systems and provides comprehensive introductions to the design of the system architecture system functionality and OoS management **Model-Driven Development and Operation of Multi-Cloud Applications** Elisabetta Di Nitto, Peter Matthews, Dana Petcu, Arnor Solberg, 2016-11-28 This book summarizes work being undertaken within the collaborative MODAClouds research project which aims to facilitate interoperability between heterogeneous Cloud platforms and remove the constraints of deployment portability and reversibility for end users of Cloud services Experts involved in the project provide a clear overview of the MODAClouds approach and explain how it operates in a variety of applications While the wide spectrum of available Clouds constitutes a vibrant technical environment many early stage issues pose specific challenges from a software engineering perspective MODAClouds will provide methods a decision support system and an open source IDE and run time environment for the high level design early prototyping semiautomatic code generation and automatic deployment of applications on multiple Clouds It will free developers from the need to commit to a fixed Cloud technology stack during software design and offer benefits in terms of cost savings portability of applications and data between Clouds reversibility moving applications and data from Cloud to non Cloud environments risk management quality assurance and flexibility in the development <u>Cloud Computing Patterns</u> Christoph Fehling, Frank Leymann, Ralph Retter, Walter Schupeck, Peter process Arbitter, 2014-02-18 The current work provides CIOs software architects project managers developers and cloud strategy initiatives with a set of architectural patterns that offer nuggets of advice on how to achieve common cloud computing related goals The cloud computing patterns capture knowledge and experience in an abstract format that is independent of concrete vendor products Readers are provided with a toolbox to structure cloud computing strategies and design cloud

application architectures By using this book cloud native applications can be implemented and best suited cloud vendors and tooling for individual usage scenarios can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors Academic knowledge is brought in by Christoph Fehling and Professor Dr Frank Leymann who work on cloud research at the University of Stuttgart Practical experience in building cloud applications selecting cloud vendors and designing enterprise architecture as a cloud customer is brought in by Dr Ralph Retter who works as an IT architect at T Systems Walter Schupeck who works as a Technology Manager in the field of Enterprise Architecture at Daimler AG and Peter Arbitter the former head of T Systems cloud architecture and IT portfolio team and now working for Microsoft Voices on Cloud Computing Patterns Cloud computing is especially beneficial for large companies such as Daimler AG Prerequisite is a thorough analysis of its impact on the existing applications and the IT architectures During our collaborative research with the University of Stuttgart we identified a vendor neutral and structured approach to describe properties of cloud offerings and requirements on cloud environments. The resulting Cloud Computing Patterns have profoundly impacted our corporate IT strategy regarding the adoption of cloud computing They help our architects project managers and developers in the refinement of architectural guidelines and communicate requirements to our integration partners and software suppliers Dr Michael Gorriz CIO Daimler AG Ever since 2005 T Systems has provided a flexible and reliable cloud platform with its Dynamic Services Today these cloud services cover a huge variety of corporate applications especially enterprise resource planning business intelligence video voice communication collaboration messaging and mobility services The book was written by senior cloud pioneers sharing their technology foresight combining essential information and practical experiences This valuable compilation helps both practitioners and clients to really understand which new types of services are readily available how they really work and importantly how to benefit from the cloud Dr Marcus Hacke Senior Vice President T Systems International GmbH This book provides a conceptual framework and very timely guidance for people and organizations building applications for the cloud Patterns are a proven approach to building robust and sustainable applications and systems The authors adapt and extend it to cloud computing drawing on their own experience and deep contributions to the field Each pattern includes an extensive discussion of the state of the art with implementation considerations and practical examples that the reader can apply to their own projects By capturing our collective knowledge about building good cloud applications and by providing a format to integrate new insights this book provides an important tool not just for individual practitioners and teams but for the cloud computing community at large Kristof Kloeckner General Manager Rational Software IBMSoftware Group Handbook of **Cloud Computing** Borko Furht, Armando Escalante, 2010-09-11 Cloud computing has become a significant technology trend Experts believe cloud computing is currently reshaping information technology and the IT marketplace The advantages of using cloud computing include cost savings speed to market access to greater computing resources high availability and

scalability Handbook of Cloud Computing includes contributions from world experts in the field of cloud computing from academia research laboratories and private industry This book presents the systems tools and services of the leading providers of cloud computing including Google Yahoo Amazon IBM and Microsoft The basic concepts of cloud computing and cloud computing applications are also introduced Current and future technologies applied in cloud computing are also discussed Case studies examples and exercises are provided throughout Handbook of Cloud Computing is intended for advanced level students and researchers in computer science and electrical engineering as a reference book This handbook is also beneficial to computer and system infrastructure designers developers business managers entrepreneurs and investors within the cloud computing related industry Cloud Computing Zaigham Mahmood, 2013-05-16 This book presents both state of the art research developments and practical guidance on approaches technologies and frameworks for the emerging cloud paradigm Topics and features presents the state of the art in cloud technologies infrastructures and service delivery and deployment models discusses relevant theoretical frameworks practical approaches and suggested methodologies offers guidance and best practices for the development of cloud based services and infrastructures and examines management aspects of cloud computing reviews consumer perspectives on mobile cloud computing and cloud based enterprise resource planning explores software performance testing open source cloudware support and assessment methodologies for modernization migration and pre migration describes emerging new methodologies relevant to the cloud paradigm and provides suggestions for future developments and research directions **Engineering Scalable, Elastic,** and Cost-Efficient Cloud Computing Applications Steffen Becker, Gunnar Brataas, Sebastian Lehrig, 2018-08-01 This book provides an overview of the problems involved in engineering scalable elastic and cost efficient cloud computing services and describes the CloudScale method a description of rescuing tools and the required steps to exploit these tools It allows readers to analyze the scalability problem in detail and identify scalability anti-patterns and bottlenecks within an application With the CloudScale method software architects can analyze both existing and planned IT services The method allows readers to answer questions like With an increasing number of users can my service still deliver acceptable quality of service What if each user uses the service more intensively Can my service still handle it with acceptable quality of service What if the number of users suddenly increases Will my service still be able to handle it Will my service be cost efficient First the book addresses the importance of scalability elasticity and cost efficiency as vital quality related attributes of modern cloud computing applications Following a brief overview of CloudScale cloud computing applications are then introduced in detail and the aspects that need to be captured in models of such applications are discussed In CloudScale these aspects are captured in instances of the ScaleDL modeling language Subsequently the book describes the forward engineering part of CloudScale which is applicable when developing a new service It also outlines the reverse and reengineering parts of CloudScale which come into play when an existing legacy service is modified Lastly the book directly focuses on the needs of

both business oriented and technical managers by providing guidance on all steps of implementing CloudScale as well as making decisions during that implementation The demonstrators and reference projects described serve as a valuable starting point for learning from experience This book is meant for all stakeholders interested in delivering scalable elastic and cost efficient cloud computing applications managers product owners software architects and developers alike With this book they can both see the overall picture as well as dive into issues of particular interest

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