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

Xiao Liu,Dong Yuan,Gaofeng Zhang,Wenhao Li,Dahai Cao,Qiang He,Jinjun Chen,Yun Yang

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

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 federated cloud networking services   **Model-Driven Development and Operation of Multi-Cloud Applications** 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 QoS 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 QoS 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 process   Cloud Computing Patterns Christoph Fehling,Frank Leymann,Ralph Retter,Walter Schupeck,Peter 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

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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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