

SPRINGER BRIEFS IN COMPUTER SCIENCE

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Cloud Portability and Interoperability

Issues and Current Trends

 Springer

Cloud Portability And Interoperability Issues And Current Trends Springerbriefs In Computer Science

Коллектив авторов



Cloud Portability And Interoperability Issues And Current Trends Springerbriefs In Computer Science:

Cloud Portability and Interoperability Beniamino Di Martino, Giuseppina Cretella, Antonio Esposito, 2015-03-18 This book offers readers a quick comprehensive and up to date overview of the most important methodologies technologies APIs and standards related to the portability and interoperability of cloud applications and services illustrated by a number of use cases representing a variety of interoperability and portability scenarios The lack of portability and interoperability between cloud platforms at different service levels is the main issue affecting cloud based services today The brokering negotiation management monitoring and reconfiguration of cloud resources are challenging tasks for developers and users of cloud applications due to the different business models associated with resource consumption and to the variety of services and features offered by different cloud providers In chapter 1 the concepts of cloud portability and interoperability are introduced together with the issues and limitations arising when such features are lacking or ignored Subsequently chapter 2 provides an overview of the state of the art methodologies and technologies that are currently used or being explored to enable cloud portability and interoperability Chapter 3 illustrates the main cross platform cloud APIs and how they can solve interoperability and portability issues In turn chapter 4 presents a set of ready to use solutions which either because of their broad scale use in cloud computing scenarios or because they utilize established or emerging standards play a fundamental part in providing interoperable and portable solutions Lastly chapter 5 presents an overview of emerging standards for cloud Interoperability and portability Researchers and developers of cloud based services will find here a brief survey of the relevant methodologies APIs and standards illustrated by case studies and complemented by an extensive reference list for more detailed descriptions of every topic covered

DAMA-DMBOK: Guía Del Conocimiento Para La Gestión De Datos (Spanish Edition) DAMA International, La Guía del Conocimiento para la Gestión de Datos DAMA DMBOK2 presenta una visión exhaustiva de los desafíos complejidades y valor de la gestión eficaz de los datos Las organizaciones de hoy en día reconocen que la gestión de los datos es fundamental para su éxito Reconocen que los datos tienen valor y quieren aprovechar ese valor A medida que nuestra capacidad y deseo de crear y explotar datos ha aumentado también lo ha hecho la necesidad de prácticas de gestión de datos confiables La segunda edición de la Guía del Conocimiento para la Gestión de Datos de DAMA International actualiza y aumenta el exitoso DMBOK1 DMBOK2 un libro de referencia accesible y autorizado escrito por los principales pensadores en el campo y ampliamente revisado por los miembros de DAMA reúne materiales que describen exhaustivamente los desafíos de la gestión de datos y cómo cumplirlos mediante Definir un conjunto de principios rectores para la gestión de datos y describir cómo se pueden aplicar estos principios dentro de las áreas funcionales de gestión de datos Proporcionar un marco de referencia funcional para la implementación de prácticas de gestión de datos empresariales incluyendo prácticas métodos y técnicas ampliamente adoptadas funciones roles entregables y métricas Establecer un vocabulario común para los conceptos de gestión de datos y servir de base para las mejores prácticas para los profesionales de

la gesti n de datos DAMA DMBOK2 proporciona a los profesionales de la gesti n de datos y de TI a ejecutivos trabajadores del conocimiento educadores e investigadores un marco para gestionar sus datos y madurar su infraestructura de informaci n basado en estos principios Los datos son un activo con propiedades nicas El valor de los datos puede y debe expresarse en t rminos econ micos Gestionar los datos significa gestionar la calidad de los datos Se necesitan metadatos para gestionar los datos Se necesita planificaci n para gestionar los datos La gesti n de datos es multifuncional y requiere una amplia gama de habilidades y experiencia La gesti n de datos requiere una perspectiva empresarial La gesti n de datos debe tener en cuenta una serie de perspectivas La gesti n de datos es la gesti n del ciclo de vida de los datos Los diferentes tipos de datos tienen diferentes requerimientos de ciclo de vida La gesti n de datos incluye la gesti n de los riesgos asociados a los datos Los requerimientos de gesti n de datos deben impulsar las decisiones sobre tecnolog a de la informaci n Una gesti n eficaz de los datos requiere un compromiso de liderazgo Los cap tulos incluyen Gesti n de Datos Manejo tico de los Datos Gobierno de Datos Arquitectura de Datos Modelado y Dise o de Datos Almacenamiento de Datos y Operaciones Seguridad de Datos Integraci n de Datos e Interoperabilidad Gesti n de Documentos y Contenidos Datos Maestros y de Referencia Data Warehousing e Inteligencia de Negocios Gesti n de Metadatos Calidad de Datos Big Data y Ciencia de Datos Evaluaci n de la Madurez de la Gesti n de Datos Organizaci n de la Gesti n de Datos y Expectativas de Roles Gesti n de Datos y Gesti n del Cambio Organizacional La estandarizaci n de las disciplinas de gesti n de datos ayudar a los profesionales de la gesti n de datos a desempe arse de forma m s eficaz y consistente Tambi n permitir a los l deres de la organizaci n reconocer el valor y las contribuciones de las actividades de gesti n de datos

DAMA-DMBOK. Свод знаний по управлению данными

Коллектив авторов,2020-11-16 DAMA DMBOK **Continued Rise of the Cloud** Zaigham Mahmood,2014-07-07 This book captures the state of the art in cloud technologies infrastructures and service delivery and deployment models The work provides guidance and case studies on the development of cloud based services and infrastructures from an international selection of expert researchers and practitioners Features presents a focus on security and access control mechanisms for cloud environments analyses standards and brokerage services and investigates the role of certification for cloud adoption evaluates cloud ERP suggests a framework for implementing big data science and proposes an approach for cloud interoperability reviews existing elasticity management solutions discusses the relationship between cloud management and governance and describes the development of a cloud service capability assessment model examines cloud applications in higher education including the use of knowledge as a service in the provision of education and cloud based e learning for students with disabilities *Interoperability and Portability Among Open Clouds Using FIPA Agent* Rabia Khan,2012-09-18

Cloud Computing Nick Antonopoulos, Lee Gillam,2017-06-02 This practically focused reference presents a comprehensive overview of the state of the art in Cloud Computing and examines the potential for future Cloud and Cloud related technologies to address specific industrial and research challenges This new edition explores both established and emergent

principles techniques protocols and algorithms involved with the design development and management of Cloud based systems The text reviews a range of applications and methods for linking Clouds undertaking data management and scientific data analysis and addressing requirements both of data analysis and of management of large scale and complex systems This new edition also extends into the emergent next generation of mobile telecommunications relating network function virtualization and mobile edge Cloud Computing as supports Smart Grids and Smart Cities As with the first edition emphasis is placed on the four quality of service cornerstones of efficiency scalability robustness and security

Cloud Portability and Interoperability Under the EU Data Act Sean F. Ennis, Ben Evans, 2023 This paper examines the provisions of the EU proposal for a Data Act relating to cloud portability and interoperability through a joint economic and legal lens It suggests that the minutiae of the definition of equivalence designed to protect firms consuming cloud computing services are quite different from portability and interoperability rules for simple products due to product complexity and ongoing innovation While a certain level of portability and interoperability are natural and essential for customers the breadth of net cast by equivalence as proposed could yield unintended consequences that not only lead to operational challenges in transferring customer assets but even product simplification to a lowest common denominator reducing availability of the cloud computing service variety that customers seek In the worst case an overly expansive definition of equivalence could create a race to the bottom that harms dynamic competition and innovation and limits cloud computing service availability in regions covered by the regulation

Cloud Computing Zaigham Mahmood, 2014-10-20 This book reviews the challenging issues that present barriers to greater implementation of the cloud computing paradigm together with the latest research into developing potential solutions Topics and features presents a focus on the most important issues and limitations of cloud computing covering cloud security and architecture QoS and SLAs discusses a methodology for cloud security management and proposes a framework for secure data storage and identity management in the cloud introduces a simulation tool for energy aware cloud environments and an efficient congestion control system for data center networks examines the issues of energy aware VM consolidation in the IaaS provision and software defined networking for cloud related applications reviews current trends and suggests future developments in virtualization cloud security QoS data warehouses cloud federation approaches and DBaaS provision predicts how the next generation of utility computing infrastructures will be designed

Transforming Enterprise Cloud Services William Y Chang, Hosame Abu-Amara, Jessica Feng Sanford, 2010-11-15 The broad scope of Cloud Computing is creating a technology business sociological and economic renaissance It delivers the promise of making services available quickly with rather little effort Cloud Computing allows almost anyone anywhere at anytime to interact with these service offerings Cloud Computing creates a unique opportunity for its users that allows anyone with an idea to have a chance to deliver it to a mass market base As Cloud Computing continues to evolve and penetrate different industries it is inevitable that the scope and definition of Cloud Computing becomes very subjective based

on providers and customers perspective of applications For instance Information Technology IT professionals perceive a Cloud as an unlimited on demand flexible computing fabric that is always available to support their needs Cloud users experience Cloud services as virtual off premise applications provided by Cloud service providers To an end user a provider offering a set of services or applications in the Cloud can manage these offerings remotely Despite these discrepancies there is a general consensus that Cloud Computing includes technology that uses the Internet and collaborated servers to integrate data applications and computing resources With proper Cloud access such technology allows consumers and businesses to access their personal files on any computer without having to install special tools Cloud Computing facilitates efficient operations and management of computing technologies by federating storage memory processing and bandwidth

Cloud Computing

Dinesh G. Harkut, Kashmira Kasat, Saurabh Shah, 2019-01-03 In the era of the Internet of Things and Big Data Cloud Computing has recently emerged as one of the latest buzzwords in the computing industry It is the latest evolution of computing where IT resources are offered as services Cloud computing provides on demand scalable device independent and reliable services to its users The exponential growth of digital data bundled with the needs of analysis processing and storage and cloud computing has paved the way for a cheap secure and omnipresent computing framework allowing for the delivery of enormous computing and storage capacity to a diverse community of end recipients Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways The term cloud is often used as a metaphor for the Internet and can be defined as a new type of utility computing that basically uses servers that have been made available to third parties via the Internet

Model-Driven Development and Operation of Multi-Cloud Applications

Elisabetta Di Nitto, Peter Matthews, Dana Petcu, Arnor Solberg, 2016-12-22 This book 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

Research Advances in Cloud Computing Sanjay Chaudhary, Gaurav Somani, Rajkumar Buyya, 2017-12-28 This book addresses the

emerging area of cloud computing providing a comprehensive overview of the research areas recent work and open research problems The move to cloud computing is no longer merely a topic of discussion it has become a core competency that every modern business needs to embrace and excel at It has changed the way enterprise and internet computing is viewed and this success story is the result of the long term efforts of computing research community around the globe It is predicted that by 2026 more than two thirds of all enterprises across the globe will be entirely run in cloud These predictions have led to huge levels of funding for research and development in cloud computing and related technologies Accordingly universities across the globe have incorporated cloud computing and its related technologies in their curriculum and information technology IT organizations are accelerating their skill set evolution in order to be better prepared to manage emerging technologies and public expectations of the cloud such as new services

Information Technology. Cloud Computing. Interoperability and Portability British Standards Institute Staff,1918-01-16 Computer networks Data processing Communication networks Computer technology Internet

Encyclopedia of Cloud Computing San Murugesan,Irena Bojanova,2016-05-09 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing s impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information

Survey of Cloud Computing Borko Furht,2012-01-01 A Survey of Cloud Computing covers a wide range of topics making it a great tool for anyone looking for a quick yet comprehensive reference on this subject

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

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

Model-Driven Development and Operation of Multi-Cloud Applications Dana Petcu,Peter Matthews,Elisabetta Di Nitto,2020-10-08 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 This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use All rights not granted by the work s license are retained by the author or authors

Essentials of Cloud Computing
Chellammal Surianarayanan,Pethuru Raj Chelliah,2019-08-27 This reader friendly textbook presents a comprehensive overview of the essential aspects of cloud computing from the origin of the field to the latest developments Rather than

merely discussing the cloud paradigm in isolation the text also examines how cloud computing can work collaboratively with other computing models to meet the needs of evolving computing trends This multi dimensional approach encompasses the challenges of fulfilling the storage requirements of big data the use of the cloud as a remote server for Internet of Things and sensor networks and an investigation of how cloud computing is interlinked with edge fog and mist computing among other illuminating perspectives Topics and features includes learning objectives motivating questions and self test exercises in every chapter presents an introduction to the underlying concepts fundamental features and key technological foundations of cloud computing examines how enterprise networking and cloud networking can work together to achieve business goals reviews the different types of cloud storage available to address the evolution of data and the need for digitization discusses the challenges and approaches to implementing cloud security and the hot topic of cloud management highlights the value of cloud brokerage capabilities and explains the importance of cloud orchestration in multi cloud environments describes the details of cloud migration the crucial role of monitoring in optimizing the cloud and the basics of disaster recovery using cloud infrastructure This technically rigorous yet simple to follow textbook is an ideal resource for graduate courses on cloud computing Professional software developers and cloud architects will also find the work to be an invaluable reference

Security and Privacy Trends in Cloud Computing and Big Data Muhammad Imran Tariq,Valentina Emilia Balas,Shahzadi Tayyaba,2022-06-07 It is essential for an organization to know before involving themselves in cloud computing and big data what are the key security requirements for applications and data processing Big data and cloud computing are integrated together in practice Cloud computing offers massive storage high computation power and distributed capability to support processing of big data In such an integrated environment the security and privacy concerns involved in both technologies become combined This book discusses these security and privacy issues in detail and provides necessary insights into cloud computing and big data integration It will be useful in enhancing the body of knowledge concerning innovative technologies offered by the research community in the area of cloud computing and big data Readers can get a better understanding of the basics of cloud computing big data and security mitigation techniques to deal with current challenges as well as future research opportunities

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