

Cloud Computing: Standards View

- Many standards already exist within the enabling technologies
- Leverage existing work with Cloud standards “profiles”
- Gap analysis suggests areas of needed standards (e.g. instance import/export, interoperability, management tools, etc.)

Cloud Standards Cloud Standards

Archie Reed, Stephen G. Bennett



Cloud Standards Cloud Standards:

Cloud Standards Marvin Waschke, 2012-12-05 Cloud computing is often described as providing computing resources the way electric utilities provide energy. In theory, anyone with an adequate connection to the Internet should be able to tap into a cloud provider and get exactly the computing resources they want when they want it, just like plugging into the electricity grid and getting exactly the energy you want when you want it. But to get that electricity, there are many standards: voltage, frequency, phase. Motors constructed in standard ways; there is a long list. There is an equally long list for cloud computing. Many of the standards are already in place. Others are being developed, some in contention. *Cloud Standards* is a broad discussion of important existing and future standards. For existing standards, the discussion focuses on how they are used, providing practical advice to engineers constructing clouds and services to be deployed on clouds. For future standards, the discussion is on why a standard is needed, what the benefits will be, and what is being done now to fill the gap. No current book provides this information in the depth and detail necessary for an engineer in his work, an architect in designing cloud systems, a product manager collecting and evaluating products, or an executive evaluating the feasibility of a project. A second benefit from this book is that it provides insight into cloud implementations. Cloud implementations can be seen as the culmination of many trends in software and hardware engineering. Much of the foundation for these developments have been crystallized in the form of standards like TCP/IP, Transmission Control Protocol, Internet Protocol, and HTTP, Hypertext Transmission Protocol. The book leads readers to understand how these contribute to and affect cloud implementations. Unfortunately, emerging standards are often messy. Cloud implementers may need to choose between competing proposed standards. Sometimes it is better to reject the standard entirely and roll your own. This book provides background for intelligent decisions. Keeping a cloud or an application implemented on a cloud running well requires careful tuning of the implementation. Tuning often involves adjusting controls that are in the standard or applying the standard in less well-known ways. This book is an aid in tuning cloud systems for maximum benefits.

Modeling and Analysis of Security Standards for Web Services and Cloud Computing Ola Ajaj, 2013 Cloud Computing is a new computing model that consists of a large pool of hardware and software resources on remote datacenters that are accessed through the Internet. Cloud Computing faces significant obstacles to its acceptance, such as security, virtualization, and lack of standardization. For Cloud standards, there is a long debate about their role, and more demands for Cloud standards are put on the table. The Cloud standardization landscape is so ambiguous. To model and analyze security standards for Cloud Computing and web services, we have surveyed Cloud standards, focusing more on the standards for security, and we classified them by groups of interests. Cloud Computing leverages a number of technologies, such as Web 2.0, virtualization, and Service Oriented Architecture (SOA). SOA uses web services to facilitate the creation of SOA systems by adopting different technologies despite their differences in formats and protocols. Several committees, such as W3C and OASIS, are developing standards for web services; their standards are rather

complex and verbose We have expressed web services security standards as patterns to make it easy for designers and users to understand their key points We have written two patterns for two web services standards WS SecureConversation and WS Federation This completed an earlier work we have done on web services standards We showed relationships between web services security standards and used them to solve major Cloud security issues such as authorization and access control trust and identity management Close to web services we investigated Business Process Execution Language BPEL and we addressed security considerations in BPEL and how to enforce them To see how Cloud vendors look at web services standards we took Amazon Web Services AWS as a case study By reviewing AWS documentations web services security standards are barely mentioned We highlighted some areas where web services security standards could solve some AWS limitations and improve AWS security process Finally we studied the security guidance of two major Cloud developing organizations CSA and NIST Both missed the quality of attributes offered by web services security standards We expanded their work and added benefits of adopting web services security standards in securing the Cloud

Cloud Computing Kris Jamsa, 2013 Introducing cloud computing Software as a service SaaS Platform as a service PaaS Infrastructure as a service IaaS Identity as a service IDaaS Data storage in the cloud Collaboration in the cloud Virtualization Securing the cloud Disaster recovery and business continuity and the cloud Service oriented architecture Managing the cloud Migrating to the cloud Mobile cloud computing Governing the cloud Evaluating the cloud's business impact and economics Designing cloud based solutions Coding cloud based applications Application scalability The future of the cloud

NIST-SP 500-291, NIST Cloud Computing Standards Roadmap nist, 2013-12-29 The NIST Cloud Computing Standards Roadmap Working Group has surveyed the existing standards landscape for security portability and interoperability standards models studies use cases etc relevant to cloud computing Using this available information current standards standards gaps and standardization priorities are identified in this document The NIST Definition of Cloud Computing identified cloud computing as a model for enabling ubiquitous convenient on demand network access to a shared pool of configurable computing resources e.g. networks servers storage applications and services that can be rapidly provisioned and released with minimal management effort or service provider interaction

Cloud Computing Synopsis and Recommendations Tim Grance, U.S. Department of Commerce, Robert Patt-Corner, 2012-05-31 This document reprises the NIST established definition of cloud computing describes cloud computing benefits and open issues presents an overview of major classes of cloud technology and provides guidelines and recommendations on how organizations should consider the relative opportunities and risks of cloud computing Cloud computing has been the subject of a great deal of commentary Attempts to describe cloud computing in general terms however have been problematic because cloud computing is not a single kind of system but instead spans a spectrum of underlying technologies configuration possibilities service models and deployment models This document describes cloud systems and discusses their strengths and weaknesses

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 **Cloud Computing For Dummies** Judith S. Hurwitz,Robin Bloor,Marcia Kaufman,Fern Halper,2010-01-19 The easy way to understand and implement cloud computing technology written by a team of experts Cloud computing can be difficult to understand at first but the cost saving possibilities are great and many companies are getting on board If you ve been put in charge of implementing cloud computing this straightforward plain English guide clears up the confusion and helps you get your plan in place You ll learn how cloud computing enables you to run a more green IT infrastructure and access technology enabled services from the Internet in the cloud without having to understand manage or invest in the technology infrastructure that supports them You ll also find out what you need to consider when implementing a plan how to handle security issues and more Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet saving money on infrastructure and support This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns Offers practical guidance on delivering and managing cloud computing services effectively and efficiently Presents a proactive and pragmatic approach to implementing cloud computing in any organization Helps IT managers and staff understand the benefits and challenges of cloud computing how to select a service and what s involved in getting it up and running Highly experienced author team consults and gives presentations on emerging technologies Cloud Computing For Dummies gets straight to the point providing the practical information you need to know Assured Cloud Computing Roy H. Campbell,Charles A. Kamhoua,Kevin A. Kwiat,2018-08-06 Explores key challenges and solutions to assured cloud computing today and provides a provocative look at the face of cloud computing tomorrow This book offers readers a comprehensive suite of solutions for resolving many of the key challenges to achieving high levels of assurance in cloud computing The distillation of critical research findings generated by the Assured Cloud Computing Center of Excellence ACC UCoE of the University of Illinois Urbana Champaign it provides unique insights into the current and future shape of robust dependable and secure cloud based computing and data cyberinfrastructures A survivable and distributed cloud computing based infrastructure can enable the configuration of any dynamic systems of systems that contain both

trusted and partially trusted resources and services sourced from multiple organizations To assure mission critical computations and workflows that rely on such systems of systems it is necessary to ensure that a given configuration does not violate any security or reliability requirements Furthermore it is necessary to model the trustworthiness of a workflow or computation fulfillment to a high level of assurance In presenting the substance of the work done by the ACC UCoE this book provides a vision for assured cloud computing illustrating how individual research contributions relate to each other and to the big picture of assured cloud computing In addition the book Explores dominant themes in cloud based systems including design correctness support for big data and analytics monitoring and detection network considerations and performance Synthesizes heavily cited earlier work on topics such as DARE trust mechanisms and elastic graphs as well as newer research findings on topics including R Storm and RAMP transactions Addresses assured cloud computing concerns such as game theory stream processing storage algorithms workflow scheduling access control formal analysis of safety and streaming Bringing together the freshest thinking and applications in one of today s most important topics Assured Cloud Computing is a must read for researchers and professionals in the fields of computer science and engineering especially those working within industrial military and governmental contexts It is also a valuable reference for advanced students of computer science

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

Cloud Consultant Diploma - City of London College of Economics - 6 months - 100% online / self-paced City of London College of Economics, Overview This diploma course will provide you with an in depth understanding of cloud computing Content Recognize the benefits and risks of cloud services Understand the business impact and the economics of the cloud Govern and manage your cloud environment Develop your cloud services strategy Everything you need to master cloud storage services on your device Duration 6 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link

Communication

Infrastructures for Cloud Computing Mouftah, Hussein T., Kantarci, Burak, 2013-09-30 Cloud computing has provided multiple advantages as well as challenges to software and infrastructure services In order to be fully beneficial these challenges facing cloud specific communication protocols must be addressed Communication Infrastructures for Cloud Computing presents the issues and research directions for a broad range of cloud computing aspects of software computing and storage systems This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers academics and practitioners in the active fields of engineering computer science and software **Cloud**

Computing Basics S. Srinivasan, 2014-05-14 Cloud Computing Basics covers the main aspects of this fast moving technology so that both practitioners and students will be able to understand cloud computing The author highlights the key aspects of this technology that a potential user might want to investigate before deciding to adopt this service This book explains how cloud services can be used to augment existing services such as storage backup and recovery Addressing the details on how cloud security works and what the users must be prepared for when they move their data to the cloud Also this book discusses how businesses could prepare for compliance with the laws as well as industry standards such as the Payment Card Industry **Cloud Essentials** Kalani Kirk Hausman, Susan L. Cook, Telmo Sampaio, 2013-05-02 CompTIA

Authorized courseware for the Cloud Essentials Exam CLO 001 What better way to get up to speed on cloud computing than with this new book in the popular Sybex Essentials series Cloud Essentials covers the basics of cloud computing and its place in the modern enterprise Explore public and private clouds contrast the as a service models for PaaS SaaS IaaS or XaaS platforms plan security and more In addition the book covers the exam objectives for the both the CompTIA Cloud Essentials Exam CLO 001 exam and the EXIN Cloud Computing Foundation EX0 116 certification exams and includes suggested exercises and review questions to reinforce your learning Gets you up to speed on the hottest trend in IT cloud computing Prepares IT professionals and those new to the cloud for and cover all of the CompTIA Cloud Essentials and EXIN Cloud Computing Foundation exam objectives Serves as CompTIA Authorized courseware for the exam Examines various models for cloud computing implementation including public and private clouds Contrasts as a service models for platform PaaS software SaaS infrastructure IaaS and other technologies XaaS Identifies strategies for implementation on tight budgets and goes into planning security and service management Get a through grounding in cloud basics and prepare for your cloud certification exam with Cloud Essentials

The Internet of Things in the Cloud Honbo Zhou, 2013-03-21 Although the Internet of Things IoT is a vast and dynamic territory that is evolving rapidly there has been a need for a book that offers a holistic view of the technologies and applications of the entire IoT spectrum Filling this void The Internet of Things in the Cloud A Middleware Perspective provides a comprehensive introduction to the IoT and its development worldwide It gives you a panoramic view of the IoT landscape focusing on the overall technological architecture and design of a tentatively unified IoT framework underpinned by Cloud computing from a middleware perspective Organized into three sections it

Describes the many facets of Internet of Things including the four pillars of IoT and the three layer value chain of IoT
 Focuses on middleware the glue and building blocks of a holistic IoT system on every layer of the architecture Explores Cloud computing and IoT as well as their synergy based on the common background of distributed processing The book is based on the author's two previous bestselling books in Chinese on IoT and Cloud computing and more than two decades of hands on software middleware programming and architecting experience at organizations such as the Oak Ridge National Laboratory IBM BEA Systems and Silicon Valley startup Doubletwin Tapping into this wealth of knowledge the book categorizes the many facets of the IoT and proposes a number of paradigms and classifications about Internet of Things mass and niche markets and technologies

Virtualized Software-Defined Networks and Services Qiang Duan,Mehmet Toy,2016-12-31 This comprehensive new resource presents the latest developments in key Software Defined Network SDN technologies including SDN controllers network control and management applications southbound protocols and northbound interfaces NFV technologies are reviewed including network function virtualization infrastructure virtualized network functions virtual network management and orchestration Professionals find comprehensive discussions on the relationship between SDN and NFV and how they may integrate into unified future network architecture Virtualization network services including cloud carrier Ethernet services and IP VPN services are also covered

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

The Cloud at Your Service Arthur Mateos,Jonathan Rosenberg,2010-11-21 Cloud Computing is here to stay As an economically viable way for businesses of all sizes to distribute computing this technology shows tremendous promise But the intense hype surrounding the Cloud is making it next to impossible for responsible IT managers and business decision makers to get a clear understanding of what the Cloud really means what it might do for them when it is practical and what their future with the Cloud looks like The Cloud at Your Service helps cut through all this fog to help enterprises make these critical decisions based on facts and the authors informed unbiased recommendations and predictions Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

Cloud Security Guidelines for IBM Power

Systems Turgut Aslan, Peter G. Croes, Liviu Rosca, Max Stern, IBM Redbooks, 2016-03-09 This IBM Redbooks publication is a comprehensive guide that covers cloud security considerations for IBM Power Systems™. The first objectives of this book are to examine how Power Systems can fit into the current and developing cloud computing landscape and to outline the proven Cloud Computing Reference Architecture (CCRA) that IBM employs in building private and hybrid cloud environments. The book then looks more closely at the underlying technology and hones in on the security aspects for the following subsystems: IBM Hardware Management Console, IBM PowerVM, IBM PowerKVM, IBM PowerVC, IBM Cloud Manager with OpenStack, IBM Bluemix. This publication is for professionals who are involved in security design with regard to planning and deploying cloud infrastructures using IBM Power Systems. *Silver Clouds, Dark Linings* Archie Reed, Stephen G. Bennett, 2010-09-15 The Executive's Strategic Guide to Driving Maximum Business Value from Cloud Services. Cloud services represent a fundamental shift in how individuals, enterprises, and governments conduct business, interact, and use technology. If used effectively, they can increase business agility and focus, simplify capacity planning, and strengthen cost control. Unsurprisingly, however, the cloud also presents risks. In this concise executive-level book, leading experts Archie Reed and Stephen G. Bennett share the insights and guidance decision makers need to drive maximum value from cloud services and avoid the pitfalls. The authors explain what cloud computing is, how it works, who provides cloud services, and how companies are using them. Next, they walk through the entire cloud lifecycle, offering expert guidance on planning, governance, compliance, security, operations, administration, management, and more. You'll learn how to assess the opportunities, benefits, and risks of cloud services in your environment. Use the cloud to improve processes, accelerate system product delivery, or create entirely new products and businesses. Approach the cloud strategically and learn why you should. Understand cloud infrastructure operations and standards from the decision maker's point of view. Build on existing solution architecture, design practices, and SOA investments. Ensure appropriate control, monitoring, compliance, and security. Use IT process standardization to simplify cloud services management. Define a flexible roadmap that enables multiple projects to move forward in parallel and can change as the marketplace evolves. Cover illustration by RapidEye. iStockphoto.com

Developing and Hosting Applications on the Cloud Alex Amies, Harm Sluiman, Qiang Guo Tong, Guo Ning Liu, 2012-07-02 A Complete Practical Guide to Building and Hosting Cloud Services That Deliver Exceptional Business Value. In this unique title, key developers of the IBM SmartCloud Enterprise share indispensable insights for developing and operating cloud-based solutions on any cloud platform. Drawing on their unsurpassed in-the-trenches experience, the authors help you develop the new mindset and skills needed to succeed in cloud environments where development, business, and system operations are linked more tightly than ever. Using examples based on IBM SmartCloud Enterprise, the authors cover a wide variety of cloud use cases while also introducing general principles for automating and optimizing IT infrastructure in any cloud environment. They begin by presenting an authoritative, accessible review of cloud computing and Infrastructure as

a Service IaaS cloud concepts Next they demonstrate how to use cloud tools develop basic cloud applications and utilize standards to establish interoperability between clouds Finally drawing on deep personal experience they offer best practice solutions for all facets of cloud hosting including security monitoring performance availability and business support Throughout they emphasize real world problem solving offering numerous code examples and practical demonstrations of real world tools and utilities Coverage includes Understanding each cloud deployment model private community public and hybrid Reviewing key cloud computing use cases including those based on virtualization and collaboration Developing for the cloud with the LAMP stack Windows J2EE WebSphere and other technologies Building apps for the IBM SmartCloud Enterprise public infrastructure Using the command line toolkit Java and REST APIs to manage IBM SmartCloud Enterprise resources Exploring cloud computing standards and open source projects that promote interoperability among clouds Building cloud applications to customize images deliver network services install manage software and provide remote desktops Using IBM s powerful self service and delegated administration models and best of breed VM images Leveraging open source projects for cloud service management and virtualization Understanding cloud service security trusted certificates identity access management SSH HTTPS IPsec application hardening and much more Monitoring and optimizing performance and availability through the entire system lifecycle Managing scaling and automating cloud applications to meet business needs This title will be valuable to every enterprise developer architect and IT manager seeking the full benefits of cloud based services all ISVs building value add services on public clouds and everyone building applications that rely heavily on IaaS Platform as a Service PaaS Software as a Service SaaS or Business as a Service BaaS

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