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by Top-Selling Author Thomas Erl with Zaigham Mahmood and Ricardo Puttini

Foreword by Pamela J. Wise-Martinez,
Department of Energy, National Nuclear Security Administration
Contributions by Gustavo Azzolin, Amin Naserpour, Vinicius Pacheco, Matthias Ziegler
Contribution by Michaela lorga, Ph.D., Senior Security Technical Lead for Cloud Computing, NIST

# **Cloud Computing Concepts Technology Architecture**

Mahmood, Zaigham

#### **Cloud Computing Concepts Technology Architecture:**

Cloud Computing Thomas Erl, Eric Barcelo Monroy, 2023-08-14 Cloud Computing Concepts Technology Security Architecture Cloud computing has become an integral and foundational part of information technology The majority of digital business activity and technology innovation occurs with the involvement of contemporary cloud environments that provide highly sophisticated automated technology infrastructure and a vast range of technology resources To successfully build upon interact with or create a cloud environment requires an understanding of its common inner mechanics architectural layers models and security controls It also requires an understanding of the business and economic factors that justify the adoption and real world use of clouds and cloud based products and services In Cloud Computing Concepts Technology Security Architecture Thomas Erl one of the world's top selling IT authors teams up with cloud computing expert Eric Barcel Monroy and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts technology mechanisms and technology architectures Comprehensive coverage of containerization and cybersecurity topics is also included All chapters are carefully authored from an industry centric and vendor neutral point of view In doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing and containerization platforms and solutions With nearly 370 figures 40 architectural models and 50 mechanisms this indispensable guide provides a comprehensive education of contemporary cloud computing containerization and cybersecurity that will never leave your side **Cloud Computing** Thomas Erl, Ricardo Puttini, Zaigham Mahmood, 2013-05-02 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 To successfully build upon integrate with or even create a cloud environment requires an understanding of its common inner mechanics architectural layers and models as well as an understanding of the business and economic factors that result from the adoption and real world use of cloud based services In Cloud Computing Concepts Technology Architecture Thomas Erl one of the world's top selling IT authors teams up with cloud computing experts and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts models technology mechanisms and technology architectures all from an industry centric and vendor neutral point of view In doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing platforms and solutions Subsequent to technology centric coverage the book proceeds to establish business centric models and metrics that allow for the financial assessment of cloud based IT resources and their comparison to those hosted on traditional IT enterprise premises Also provided are templates and formulas for calculating SLA related quality of service values and numerous explorations of the SaaS PaaS and IaaS delivery models With more than 260 figures 29 architectural models and 20 mechanisms this indispensable guide provides a comprehensive

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capabilities Next they document 30 architectures that combine these mechanisms into reliable efficient solutions Building on this technical context they address practical business issues helping you optimize investments and impact manage legal issues and operate effectively Youll find vendor neutral cost and quality metrics pricing models insights into service level agreements and other practical ways to promote success *Cloud Computing Technology* Ltd. Huawei Technologies Co.,2022-10-04 This open access book introduces cloud computing and related technologies from the concept technology and architecture of cloud computing combined with typical application cases of cloud provides students with a more complete knowledge framework in the field of cloud computing and lays the foundation for future research development and further study in cloud computing big data and other related fields As the world's leading provider of ICT information and communication technology infrastructure and intelligence terminals Huawei's products are already available in a number of areas including connectivity security wireless storage cloud computing intelligent computing and artificial intelligence

Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics Khosrow-Pour, D.B.A., Mehdi, 2018-10-19 From cloud computing to data analytics society stores vast supplies of information through wireless networks and mobile computing As organizations are becoming increasingly more wireless ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative Advanced Methodologies and Technologies in Network Architecture Mobile Computing and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data This book is an important resource for information technology professionals software developers data analysts graduate level students researchers computer engineers and IT specialists seeking modern information on emerging methods in data mining information technology and Cloud Computing Sandeep Bhowmik, 2017-07-04 Written in a tutorial style this comprehensive guide wireless networks follows a structured approach explaining cloud techniques models and platforms Popular cloud services such as Amazon Google and Microsoft Azure are explained in the text The security risks and challenges of cloud computing are discussed in detail with useful examples Emerging trends including mobile cloud computing and internet of things are discussed in the book for the benefit of the readers Numerous review questions multiple choice exercises and case studies facilitate enhanced understanding This textbook is ideal for undergraduate and graduate students of computer science engineering and information technology Web 2.0 and Cloud Technologies for Implementing Connected Government Mahmood, Zaigham, 2020-08-21 The emergence of cloud computing internet of things mobile technologies and social networking have created better connected members of the public who are digitally linked with each other in real time Establishing this two way interaction between citizens and governments has thus become attractive and an expected feature of governments worldwide Previously federal and local governments relied on first generation technologies to provide basic levels of

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sectors as well as from other transaction based services and fills a gap in this respect by extending the existing body of knowledge in the suggested field While highlighting topics such as cybersecurity use cases and models for blockchain implementation this book is ideal for business managers financial accountants practitioners researchers academicians and students interested in blockchain technology s role and implementation in IoT and the financial sector Engineering in the Era of Cloud Computing Muthu Ramachandran, Zaigham Mahmood, 2020-01-01 This book focuses on the development and implementation of cloud based complex software that allows parallelism fast processing and real time connectivity Software engineering SE is the design development testing and implementation of software applications and this discipline is as well developed as the practice is well established whereas the Cloud Software Engineering CSE is the design development testing and continuous delivery of service oriented software systems and applications Software as a Service Paradigm However with the emergence of the highly attractive cloud computing CC paradigm the tools and techniques for SE are changing CC provides the latest software development environments and the necessary platforms relatively easily and inexpensively It also allows the provision of software applications equally easily and on a pay as you go basis Business requirements for the use of software are also changing and there is a need for applications in big data analytics parallel computing AI natural language processing and biometrics etc These require huge amounts of computing power and sophisticated data management mechanisms as well as device connectivity for Internet of Things IoT environments In terms of hardware software communication and storage CC is highly attractive for developing complex software that is rapidly becoming essential for all sectors of life including commerce health education and transportation The book fills a gap in the SE literature by providing scientific contributions from researchers and practitioners focusing on frameworks methodologies applications benefits and inherent challenges barriers to engineering software using the CC paradigm Advanced Research on Cloud Computing Design and Applications Aljawarneh, Shadi, 2015-09-23 Modern society requires a specialized persistent approach to IT service delivery Cloud computing offers the most logical answer through a highly dynamic and virtualized resource made available by an increasing number of service providers Advanced Research on Cloud Computing Design and Applications shares the latest high quality research results on cloud computing and explores the broad applicability and scope of these trends on an international scale venturing into the hot button issue of IT services evolution and what we need to do to be prepared for future developments in cloud computing This book is an essential reference source for researchers and practitioners in the field of cloud computing as well as a guide for students academics or anyone seeking to learn more about advancement in IT services This publication features chapters covering a broad range of relevant topics including cloud computing for e government cloud computing in the public sector security in the cloud hybrid clouds and outsourced data IT service personalization and supply chain in the cloud **Advances in Theory and** Practice of Computational Mechanics Lakhmi C. Jain, Margarita N. Favorskaya, Ilia S. Nikitin, Dmitry L.

Reviznikov, 2020-03-31 This book discusses physical and mathematical models numerical methods computational algorithms and software complexes which allow high precision mathematical modeling in fluid gas and plasma mechanics general mechanics deformable solid mechanics and strength destruction and safety of structures These proceedings focus on smart technologies and software systems that provide effective solutions to real world problems in applied mechanics at various multi scale levels Highlighting the training of specialists for the aviation and space industry it is a valuable resource for experts in the field of applied mathematics and mechanics mathematical modeling and information technologies as well as developers of smart applied software systems Cloud Computing Nayan B. Ruparelia, 2016-05-13 Why cloud computing represents a paradigm shift for business and how business users can best take advantage of cloud services Most of the information available on cloud computing is either highly technical with details that are irrelevant to non technologists or pure marketing hype in which the cloud is simply a selling point This book however explains the cloud from the user s viewpoint the business user s in particular Nayan Ruparelia explains what the cloud is when to use it and when not to how to select a cloud service how to integrate it with other technologies and what the best practices are for using cloud computing Cutting through the hype Ruparelia cites the simple and basic definition of cloud computing from the National Institute of Science and Technology a model enabling ubiquitous convenient on demand network access to a shared pool of configurable computing resources Thus with cloud computing businesses can harness information technology resources usually available only to large enterprises And this Ruparelia demonstrates represents a paradigm shift for business It will ease funding for startups alter business plans and allow big businesses greater agility Ruparelia discusses the key issues for any organization considering cloud computing service level agreements business service delivery and consumption finance legal jurisdiction security and social responsibility He introduces novel concepts made possible by cloud computing cloud cells or specialist clouds for specific uses the personal cloud the cloud of things and cloud service exchanges He examines use case patterns in terms of infrastructure and platform software information and business process and he explains how to transition to a cloud service Current and future users will find this book an indispensable guide to the cloud Advances on P2P, Parallel, Grid. Cloud and Internet Computing Fatos Xhafa, Leonard Barolli, Flora Amato, 2016-10-21 P2P Grid Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale The aim of this volume is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to P2P Grid Cloud and Internet computing as well as to reveal synergies among such large scale computing paradigms This proceedings volume presents the results of the 11th International Conference on P2P Parallel Grid Cloud And Internet Computing 3PGCIC 2016 held November 5 7 2016 at Soonchunhyang University Asan Korea

A Field Guide to Digital Transformation Thomas Erl, Roger Stoffers, 2021-12-22 Your Complete Guide to Digital

Transformation A Field Guide to Digital Transformation is the definitive book on digital transformation Top selling IT author Thomas Erl and long time practitioner Roger Stoffers combine to provide comprehensive yet easy to understand coverage of essential digital transformation concepts practices and technologies in the format of a plain English tutorial written for any IT professionals students or decision makers With more than 160 diagrams this guide provides a highly visual exploration of what digital transformation is how it works and the techniques and technologies required to successfully build modern day digital transformation solutions Learn from the experts and Discover what digital transformation is why it emerged and when to apply it Identify the significant business benefits that successful digital transformations can deliver and how to turn your organization into a disruptive force Prepare for and overcome the common challenges associated with digital transformation initiatives Understand the data driven nature of digital transformation solutions and how they use and continually accumulate data intelligence Understand how digital transformation solutions can utilize AI technology for intelligent automated decision making Gain insight into customer centricity and how its practices are applied as part of digital transformations Explore key digital transformation automation technologies such as Robotic Process Automation RPA Internet of Things IoT Blockchain and Cloud Computing Explore key digital transformation data science technologies such as Artificial Intelligence AI Machine Learning and Big Data Analysis and Analytics The book concludes with a uniquely detailed and highly visual real world business scenario that provides step by step insights into how a digital transformation solution works how it utilizes data intelligence to improve customer relationship building and how it collects new data intelligence in support of enhancing future business capabilities **Engineering Scalable, Elastic, and Cost-Efficient Cloud Computing Applications** Steffen Becker, Gunnar Brataas, Sebastian Lehrig, 2017-05-31 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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