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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 ...

Cloud Computing: Concepts, Technology & Architecture (The

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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 ...

Cloud Computing: Concepts, Technology & Architecture (The

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Cloud Computing: Concepts, Technology and Architecture is the result of years of research and analysis of the commercial cloud computing industry, cloud computing vendor platforms, and further innovation and contributions made by cloud computing industry standards organizations and practitioners. This book breaks down proven and mature cloud computing

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Cloud Computing: Concepts, Technology & Architecture
Cloud Computing: Concepts, Technology & Architecture is a comprehensive compendium of all the relevant information about the transformative cloud technology. Erl's latest title concisely and clearly illustrates the origins and positioning of the cloud paradigm as the next-generation computing model. All the chapters are carefully written and

Cloud Computing: Concepts, Technology & Architecture
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 ...

Cloud Computing: Concepts, Technology & Architecture
[Book]
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 ...

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If put simply, the cloud computing concept actually refers to sharing resources, software, and information through a network. With an internet connection, user's information and data are stored on physical or virtual servers, which are usually controlled and maintained by the cloud computing service providers.

Cloud Computing: Concept, Technology & Architecture for ...
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 ...

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In Cloud Computing: Concepts, Technology & Architecture,
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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: Concepts, Technology, & Architecture ...
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.

Cloud Computing: Concepts, Technology & Architecture ...
The concept of Cloud Computing came into existence in 1950 with implementation of mainframe computers, accessible via thin/static clients. Since then, cloud computing has been evolved from static clients to dynamic ones from software to services. The following diagram explains the evolution of cloud computing:

Cloud Computing Tutorial - tutorialspoint.com
Technology architecture within the realm of cloud computing introduces requirements and considerations that manifest themselves in broadly scoped architectural layers and numerous distinct architectural models.

Chapter Descriptions | Arcitura

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

File Type PDF Cloud Computing Concepts Technology Architecture The Prentice Hall from an industry-centric and vendor-neutral point of view.

Erl

Pearson - Cloud Computing: Concepts, Technology ...
Software as a service (SaaS / s æ s /) is a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted. It is sometimes referred to as "on-demand software", and was formerly referred to as "software plus services" by Microsoft. SaaS applications are also known as Web-based software, on-demand software and hosted software.

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

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-

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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 education of cloud computing essentials that will never leave your side.

Comprehensive and timely, *Cloud Computing: Concepts and Technologies* offers a thorough and detailed description of cloud computing concepts, architectures, and technologies, along with guidance on the best ways to understand and implement them. It covers the multi-core architectures, distributed and parallel computing models, virtualization, cloud developments, workload and Service-Level-Agreements (SLA) in cloud, workload management. Further, resource management issues in cloud with regard to resource provisioning, resource allocation, resource mapping and resource adaptation, ethical, non-ethical and security issues in cloud are followed by discussion of open challenges and future directions. This book gives students a comprehensive overview of the latest technologies and guidance on cloud computing, and is ideal for those studying the subject in specific modules or advanced courses. It is designed in

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twelve chapters followed by laboratory setups and experiments. Each chapter has multiple choice questions with answers, as well as review questions and critical thinking questions. The chapters are practically-focused, meaning that the information will also be relevant and useful for professionals wanting an overview of the topic.

Unleash the power of cloud computing using Azure, AWS and Apache Hadoop Description With the advent of internet, there is a complete paradigm shift in the manner we comprehend computing. Need to enable ubiquity, convenient and on-demand access to resources in highly scalable and resilient environments that can be remotely accessed, gave birth to the concept of Cloud computing. The acceptance is so rapid that the notion influences sophisticated innovations in academia, industry and research world-wide and hereby change the landscape of information technology as we thought of. Through this book, the authors tried to incorporate core principles and basic notion of cloud computing in a step-by-step manner and tried to emphasize on key concepts for clear and thorough insight into the subject. Audience This book is intended for students of B.E., B.Tech., B.Sc., M.Sc., M.E., and M.Tech. as a text book. The content is designed keeping in mind the bench marked curriculum of various universities (both National and International). The book covers not only the technical details of how cloud works but also exhibits the strategy, technical design, and in-depth knowledge required to migrate existing applications to the cloud. Therefore, it makes it relevant for the beginners who wants to learn cloud computing right from the foundation. Aspiring Cloud Computing Researchers Instructors, Academicians and Professionals, if they are familiar with cloud, can use this book to learn various open source cloud computing tools, applications, technologies. They will also get

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a flavor of various international certification exams available.

What will you learn

- Learn about the Importance of Cloud Computing in Current Digital Era
- Understand the Core concepts and Principles of Cloud Computing with practical benefits
- Learn about the Cloud Deployment models and Services
- Discover how Cloud Computing Architecture works
- Learn about the Load balancing approach and Mobile Cloud Computing (MCC)
- Learn about the Virtualization and Service-Oriented Architecture (SOA) concepts
- Learn about the various Cloud Computing applications, Platforms and Security concepts
- Understand the adoption Cloud Computing technology and strategies for migration to the cloud
- Case Studies for Cloud computing adoption - Sub-Saharan Africa and India
- Key Features
- Provides a sound understanding of the Cloud computing concepts, architecture and its applications
- Explores the practical benefits of Cloud computing services and deployment models in details
- Cloud Computing Architecture, Cloud Computing Life Cycle (CCLC), Load balancing approach, Mobile Cloud Computing (MCC), Google App Engine (GAE)
- Virtualization and Service-Oriented Architecture (SOA)
- Cloud Computing applications - Google Apps, Dropbox Cloud and Apple iCloud and its uses in various sectors - Education, Healthcare, Politics, Business, and Agriculture
- Cloud Computing platforms - Microsoft Azure, Amazon Web Services (AWS), Open Nebulla, Eucalyptus, Open Stack, Nimbus and The Apache Hadoop Architecture
- Adoption of Cloud Computing technology and strategies for migration to the cloud
- Cloud computing adoption case studies - Sub-Saharan Africa and India
- Chapter-wise Questions with Summary and Examination Model Question papers

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2. Cloud Services and Deployment Models
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5. Cloud Security and Privacy
6. Cloud

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Computing Applications 7. Cloud Computing Technologies,
Platform and Services 8. Adoption of Cloud Computing 9.
Model Paper 1 10. Model Paper 2 11. Model Paper 3 12.
Model Paper 4

An expert guide to selecting the right cloud service model for your business Cloud computing is all the rage, allowing for the delivery of computing and storage capacity to a diverse community of end-recipients. However, before you can decide on a cloud model, you need to determine what the ideal cloud service model is for your business. Helping you cut through all the haze, *Architecting the Cloud* is vendor neutral and guides you in making one of the most critical technology decisions that you will face: selecting the right cloud service model(s) based on a combination of both business and technology requirements. Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights major design considerations in areas such as security, data privacy, logging, data storage, SLA monitoring, and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide Arming you with the information you need to choose the right cloud service provider, *Architecting the Cloud* is a comprehensive guide covering everything you need to be aware of in selecting the right cloud service model for you.

□ This book continues the very high standard we have come to expect from ServiceTech Press. The book provides well-explained vendor-agnostic patterns to the challenges of providing or using cloud solutions from PaaS to SaaS. The book is not only a great patterns reference, but also worth reading from cover to cover as the patterns are thought-provoking, drawing out points that you should consider and

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ask of a potential vendor if you're adopting a cloud solution. □

--Phil Wilkins, Enterprise Integration Architect, Specsavers

□ Thomas Erl's text provides a unique and comprehensive perspective on cloud design patterns that is clearly and concisely explained for the technical professional and layman alike. It is an informative, knowledgeable, and powerful insight that may guide cloud experts in achieving extraordinary results based on extraordinary expertise identified in this text.

I will use this text as a resource in future cloud designs and architectural considerations. □ --Dr. Nancy M. Landreville,

CEO/CISO, NML Computer Consulting The Definitive Guide to Cloud Architecture and Design Best-selling service

technology author Thomas Erl has brought together the de

facto catalog of design patterns for modern cloud-based architecture and solution design. More than two years in

development, this book's 100+ patterns illustrate proven solutions to common cloud challenges and requirements. Its

patterns are supported by rich, visual documentation, including 300+ diagrams. The authors address topics

covering scalability, elasticity, reliability, resiliency, recovery, data management, storage, virtualization, monitoring,

provisioning, administration, and much more. Readers will further find detailed coverage of cloud security, from

networking and storage safeguards to identity systems, trust assurance, and auditing. This book's unprecedented

technical depth makes it a must-have resource for every cloud technology architect, solution designer, developer,

administrator, and manager. Topic Areas Enabling ubiquitous, on-demand, scalable network access to shared pools of

configurable IT resources Optimizing multitenant environments to efficiently serve multiple unpredictable

consumers Using elasticity best practices to scale IT resources transparently and automatically Ensuring runtime

reliability, operational resiliency, and automated recovery

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from any failure Establishing resilient cloud architectures that act as pillars for enterprise cloud solutions Rapidly provisioning cloud storage devices, resources, and data with minimal management effort Enabling customers to configure and operate custom virtual networks in SaaS, PaaS, or IaaS environments Efficiently provisioning resources, monitoring runtimes, and handling day-to-day administration Implementing best-practice security controls for cloud service architectures and cloud storage Securing on-premise Internet access, external cloud connections, and scaled VMs Protecting cloud services against denial-of-service attacks and traffic hijacking Establishing cloud authentication gateways, federated cloud authentication, and cloud key management Providing trust attestation services to customers Monitoring and independently auditing cloud security Solving complex cloud design problems with compound super-patterns

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

"Service Oriented Architecture is a hot, but often misunderstood topic in IT today. Thomas articulately describes the concepts, specifications, and standards behind service orientation and Web Services. For enterprises adopting SOA, there is detailed advice for service-oriented analysis, planning, and design. This book is a must read!"

--Alex Lynch, Principal Consultant, Microsoft Enterprise Services "One primary objective of applying SOA in design is to provide business value to the solutions we build.

Understanding the right approach to analyzing, designing, and developing service-oriented solutions is critical. Thomas has done a great job of demystifying SOA in practical terms with his book." --Rick Weaver, IBM Senior Consulting

Certified SW I/T Specialist "A pragmatic guide to SOA principles, strategy, and best practices that distills the hype into a general framework for approaching SOA adoption in complex enterprise environments." --Sameer Tyagi, Senior

Staff Engineer, Sun Microsystems "A very timely and much needed contribution to a rapidly emerging field. Through clarifying the principles and nuances of this space, the author provides a comprehensive treatment of critical key aspects of SOA from analysis and planning to standards ranging from WS-specifications to BPEL. I'll be recommending this book to

both clients and peers who are planning on embracing SOA principles." --Ravi Palepu, Senior Field Architect, Rogue

Wave Software "Finally, an SOA book based on real implementation experience in production environments. Too many SOA books get lost in the technical details of Web Services standards, or simply repeat vendor hype. This book covers the really hard parts: the complex process of planning, designing and implementing service-oriented architectures that meet organizational goals. It is an essential companion to any software developer, architect, or project manager implementing--or thinking about implementing--a service-

oriented architecture." --Priscilla Walmsley, Managing Director of Datypic "Thomas Erl's Service-Oriented Architecture: Concepts, Technology, and Design is as good an introduction to service-oriented architectures as one could wish for. In a single volume, it covers the entire topic, from theory to real-world use to technical details. The examples are superb and the writing is wonderfully clear." --Ronald Bourret, Author, "XML and Databases" "Finally an SOA book which gets to the point with real world answers and examples. Erl guides you on a real world SOA journey. From architecture design to industry standards, this book is well written and can be easily referenced for everyday use. When embarking on your own service orientated adventures, this is the book you want in your bag." --Clark Sell, Vice President, CSell Incorporated "Organizations struggling to evolve existing service-oriented solutions beyond simple Web Services now have an expert resource available. Leading the way to the true service-oriented enterprise, Thomas Erl demystifies the complexities of the open WS-I standards with detailed practical discussions and case studies. Erl's depth and clarity makes this work a superb complement to his Field Guide." --Kevin P. Davis, PhD., Software Architect "This book is an excellent guide for architects, developers, and managers who are already working with or are considering developing Web Services or Service-Oriented Architecture solutions. The book is divided into four sections. In the first section the fundamental technologies of XML, Web Services and Service-Oriented Architectures are described in detail with attention given to emerging standards. The book is well written and very thorough in its coverage of the subject. I recommend this book highly to anyone interested in enterprise level service architectures." --Adam Hocek, President and CTO, Broadstrokes, Inc. Additional praise quotes are published at: www.soabooks.com/reviews.asp The

foremost "how-to" guide to SOA Service-Oriented
Architecture (SOA) is at the heart of a revolutionary
computing platform that is being adopted world-wide and has
earned the support of every major software provider. In
Service-Oriented Architecture: Concepts, Technology, and
Design, Thomas Erl presents the first end-to-end tutorial that
provides step-by-step instructions for modeling and designing
service-oriented solutions from the ground up. Erl uses more
than 125 case study examples and over 300 diagrams to
illuminate the most important facets of building SOA
platforms: goals, obstacles, concepts, technologies,
standards, delivery strategies, and processes for analysis and
design. His book's broad coverage includes Detailed step-by-
step processes for service-oriented analysis and service-
oriented design An in-depth exploration of service-orientation
as a distinct design paradigm, including a comparison to
object-orientation A comprehensive study of SOA support in
.NET and J2EE development and runtime platforms
Descriptions of over a dozen key Web services technologies
and WS-* specifications, including explanations of how they
interrelate and how they are positioned within SOA The use
of "In Plain English" sections, which describe complex
concepts through non-technical analogies Guidelines for
service-oriented business modeling and the creation of
specialized service abstraction layers A study contrasting
past architectures with SOA and reviewing current industry
influences Project planning and the comparison of different
SOA delivery strategies The goal of this book is to help you
attain a solid understanding of what constitutes contemporary
SOA along with step-by-step guidance for realizing its
successful implementation. About the Web Sites Erl's Service-
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Learn Big Data from the ground up with this complete and up-to-date resource from leaders in the field Big Data: Concepts, Technology, and Architecture delivers a comprehensive treatment of Big Data tools, terminology, and technology perfectly suited to a wide range of business professionals, academic researchers, and students. Beginning with a fulsome overview of what we mean when we say, "Big Data," the book moves on to discuss every stage of the lifecycle of Big Data. You'll learn about the creation of structured, unstructured, and semi-structured data, data storage solutions, traditional database solutions like SQL, data processing, data analytics, machine learning, and data mining. You'll also discover how specific technologies like Apache Hadoop, SQOOP, and Flume work. Big Data also covers the central topic of big data visualization with Tableau, and you'll learn how to create scatter plots, histograms, bar, line, and pie charts with that software. Accessibly organized, Big Data includes illuminating case studies throughout the material, showing you how the included concepts have been applied in real-world settings. Some of those concepts include: The common challenges facing big data technology and technologists, like data heterogeneity and incompleteness, data volume and velocity, storage limitations, and privacy concerns Relational and non-relational databases, like RDBMS, NoSQL, and NewSQL databases Virtualizing Big Data through encapsulation, partitioning, and isolating, as well as big data server virtualization Apache software, including Hadoop, Cassandra, Avro, Pig, Mahout, Oozie, and Hive The Big Data analytics lifecycle, including business case evaluation, data preparation, extraction, transformation, analysis, and visualization Perfect for data

scientists, data engineers, and database managers, Big Data also belongs on the bookshelves of business intelligence analysts who are required to make decisions based on large volumes of information. Executives and managers who lead teams responsible for keeping or understanding large datasets will also benefit from this book.

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