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Cloud computing continues to evolve from a market disruptor to the expected approach for IT. Although cloud computing has become a foundation of digital business, many organizations still struggle to optimize this powerful tool. Gartner estimates that less than one-third of enterprises have a documented cloud strategy.

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Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and

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sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and

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build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud

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.

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.

This book presents a comprehensive and novel adaptive enterprise service systems approach to adapting, defining, operating, managing and supporting (ADOMS) the adaptive cloud enterprise architecture. The adaptive cloud enterprise architecture provides a platform for creating the service-centric agile enterprise. This book is intended for enterprise strategists, enterprise architects, domain architects, solution architects, researchers, and anyone who has an interest in the enterprise architecture and cloud computing



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disciplines. Contents: Introduction Cloud-Enabled Enterprise Adaptation The Adaptive Enterprise Service System Metamodel The Adaptive Enterprise Service System Lifecycle Management Adapting Cloud Enterprise Architecture Capability Defining Cloud Enterprise Architecture Capability Operating Cloud Enterprise Architecture Capability Managing Cloud Enterprise Architecture Capability Supporting Cloud Enterprise Architecture Capability Case Study Examples Readership: Researchers, academics, professionals and graduate students in software engineering, information sciences and networking. Keywords: Agility; Agile Enterprise Architecture; Cloud Computing; Design Thinking; Innovation

The current work provides CIOs, software architects, project managers, developers, and cloud strategy initiatives with a set of architectural patterns that offer nuggets of advice on how to achieve common cloud computing-related goals. The cloud computing patterns capture knowledge and experience in an abstract format that is independent of concrete vendor products. Readers are provided with a toolbox to structure cloud computing strategies and design cloud application architectures. By using this book cloud-native applications can be implemented and best suited cloud vendors and tooling for individual usage scenarios can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors. Academic knowledge is brought in by Christoph Fehling and Professor Dr. Frank Leymann who work on cloud research at the University of Stuttgart. Practical experience in building cloud applications, selecting cloud vendors, and designing enterprise architecture as a cloud customer is brought in by Dr. Ralph Retter who works as an IT architect at T<sup>2</sup>Systems, Walter Schupeck, who works as a Technology Manager in the field of Enterprise Architecture at Daimler AG, and Peter Arbitter, the former head of T<sup>2</sup>Systems' cloud architecture and IT portfolio team and now working

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for Microsoft. Voices on Cloud Computing Patterns Cloud computing is especially beneficial for large companies such as Daimler AG. Prerequisite is a thorough analysis of its impact on the existing applications and the IT architectures. During our collaborative research with the University of Stuttgart, we identified a vendor-neutral and structured approach to describe properties of cloud offerings and requirements on cloud environments. The resulting Cloud Computing Patterns have profoundly impacted our corporate IT strategy regarding the adoption of cloud computing. They help our architects, project managers and developers in the refinement of architectural guidelines and communicate requirements to our integration partners and software suppliers. Dr. Michael Gorriz  $\square$  CIO Daimler AG Ever since 2005 T-Systems has provided a flexible and reliable cloud platform with its  $\square$ Dynamic Services $\square$ . Today these cloud services cover a huge variety of corporate applications, especially enterprise resource planning, business intelligence, video, voice communication, collaboration, messaging and mobility services. The book was written by senior cloud pioneers sharing their technology foresight combining essential information and practical experiences. This valuable compilation helps both practitioners and clients to really understand which new types of services are readily available, how they really work and importantly how to benefit from the cloud. Dr. Marcus Hacke  $\square$  Senior Vice President, T-Systems International GmbH This book provides a conceptual framework and very timely guidance for people and organizations building applications for the cloud. Patterns are a proven approach to building robust and sustainable applications and systems. The authors adapt and extend it to cloud computing, drawing on their own experience and deep contributions to the field. Each pattern includes an extensive discussion of the state of the art, with implementation considerations and practical examples that the reader can apply to their own projects. By capturing our collective knowledge about building good cloud applications and by providing a format to integrate new insights,

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this book provides an important tool not just for individual practitioners and teams, but for the cloud computing community at large. Kristof Kloeckner □ General Manager, Rational Software, IBM Software Group

Massive, disruptive change is coming to IT as software as a service (SaaS), SOA, mashups, Web 2.0, and cloud computing truly come of age. Now, one of the world's leading IT innovators explains what it all means—coherently, thoroughly, and authoritatively. Writing for IT executives, architects, and developers alike, world-renowned expert David S. Linthicum explains why the days of managing IT organizations as private fortresses will rapidly disappear as IT inevitably becomes a global community. He demonstrates how to run IT when critical elements of customer, product, and business data and processes extend far beyond the firewall—and how to use all that information to deliver real-time answers about everything from an individual customer's credit to the location of a specific cargo container. *Cloud Computing and SOA Convergence in Your Enterprise* offers a clear-eyed assessment of the challenges associated with this new world—and offers a step-by-step program for getting there with maximum return on investment and minimum risk. Using multiple examples, Linthicum Reviews the powerful cost, value, and risk-related drivers behind the move to cloud computing—and explains why the shift will accelerate Explains the technical underpinnings, supporting technologies, and best-practice methods you'll need to make the transition Helps you objectively assess the promise of cloud computing and SOA for your organization, quantify value, and make the business case Walks you through evaluating your existing IT infrastructure and finding your most cost-effective, safest path to the "cloud" Shows how to choose the right candidate data, services, and processes for your cloud computing initiatives Guides you through building disruptive infrastructure and next-generation process platforms Helps you bring effective, high-value governance to the clouds If you're ready

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to begin driving real competitive advantage from cloud computing, this book is the start-to-finish roadmap you need to make it happen.

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

"Provides strategic insights, describes the breakout business models, and offers the planning and implementation guidance business and technology leaders need to chart their course ahead." - cover.

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