Cloud Computing For Business The Open Group Guide

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This book describes the landscape of cloud computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on “learning by doing,” and readers are encouraged to experiment with a range of different tools and approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches used to build cloud computing infrastructures; reviews the social, economic, and political aspects of the on-going growth in cloud computing use; discusses legal and security concerns in cloud computing; examines techniques for the appraisal of financial investment into cloud computing; identifies areas for further research within this rapidly-moving field. Cloud Computing: Business Trends and Technologies provides a broad introduction to Cloud computing technologies and their applications to IT and telecommunications businesses (i.e., the network function virtualization, NFV). To this end, the book is expected to serve as a textbook in a graduate course on Cloud

computing. The book examines the business cases and then concentrates on the technologies necessary for supporting them. In the process, the book addresses the principles of – as well as the known problems with – the underlying technologies, such as virtualization, data communications, network and operations management, security and identity management. It introduces, through open-source case studies (based on OpenStack), an extensive illustration of lifecycle management. The book also looks at the existing and emerging standards, demonstrating their respective relation to each topic. Overall, this is an authoritative textbook on this emerging and still-developing discipline, which •Guides the reader through basic concepts, to current practices, to state-of-the-art applications. •Considers technical standards bodies involved in Cloud computing standardization. •Is written by innovation experts in operating systems and data communications, each with over 20 years' experience in business, research, and teaching.

This latest textbook from bestselling author, Douglas E. Comer, is a class-tested book providing a comprehensive introduction to cloud computing. Focusing on concepts and principles, rather than commercial offerings by cloud providers and vendors, The Cloud Computing Book: The Future of Computing Explained gives readers a complete picture of the advantages and growth of cloud computing, cloud infrastructure, virtualization, automation and orchestration, and cloud-native software design. The book explains real and virtual data center facilities, including computation (e.g., servers, hypervisors, Virtual Machines, and containers), networks (e.g., leaf-spine architecture, VLANs, and VxLAN), and storage mechanisms (e.g., SAN, NAS, and object storage). Chapters on automation and orchestration cover the conceptual organization of systems that automate software deployment and scaling. Chapters on cloud-native software cover parallelism, microservices, MapReduce, controller-based designs, and serverless computing. Although it focuses on concepts and principles, the book uses popular technologies in examples, including Docker containers and Kubernetes. Final chapters explain security in a cloud environment and the use of models to help control the complexity involved in designing software for the cloud. The text is suitable for a one-semester course for software engineers who want to understand cloud, and for IT managers moving an organization's computing to the cloud.

The Open Group's long awaited guidance on Cloud is now published! Cloud Computing is the major evolution today in computing. It describes how the internet has enabled organizations to access computing resources as a commodity and when needed – in much the same way as households access household utilities. For Enterprises with complex and expensive IT systems, the idea of paying on demand for someone else to provide IT services is attractive. This authoritative guide is specifically designed for business managers to understand the benefits that can be achieved; including Improved timeliness and agility

Resource optimisation Control and reduction of costs More innovation Increased security Decreased exposure to risk Demonstration of compliance Improved quality of support Improved business continuity resource The authoritative title, published by the globally respected Open Group, gives Managers reliable and independent guidance that will help to support decisions and actions in this key operational area.

Cloud Computing for Business

Risk Management: The Open Group Guide

The Enterprise Cloud

A Quick Start Guide to Cloud Computing

Delivery and Adoption of Cloud Computing Services in Contemporary Organizations

Enterprise Cloud Computing

Thomas Edison said it famously, "Genius is 1% inspiration and 99% perspiration." This hard-hitting book is all about that 99%--executing on innovation in the 21st Century world of exponential and unpredictable change. The book, in an innovative multimedia format, provides an agenda for enabling innovation in your organization, and lays out a strategy framework for execution by harnessing the revolutionary business platform, the Cloud. Creativity and great ideas will always be important--but execution is all when it comes to business innovation. Thus, the book is an impassioned plea to reinvent innovation as we know it-- to rethink the fundamental assumptions we have about business innovation and innovate innovation itself. The book provides encyclopedic coverage of the monumental subject of business innovation, including an innovation architecture and an actionable innovation agenda. However, this book is an optional read for incumbent executives! And so is business survival in the global Innovation Economy. Innovate or die. Carpe diem.

A close look at cloud computing's transformational role in business Covering cloud computing from what the business leader needs to know, this book describes how IT can nimbly ramp up revenue initiatives, positively impact business operations and costs, and how this allows business leaders to shed worry about technology so they can focus on their business. It also reveals the cloud's effect on corporate organization structures, the evolution of traditional IT in the global economy, potential benefits and risks of cloud models and most importantly, how the IT function is being rethought by companies today who are making room for the coming tidal wave that is cloud computing. Why IT and business thinking must change to capture the full potential of cloud computing Topics including emerging cloud solutions, data security, service reliability, the new role of IT and new business organization structures Other titles by Hugos include: Business Agility: Sustainable Prosperity in a Relentlessly Competitive World and Essentials of Supply Chain Management, 2nd Edition Practical and timely, this book reveals why it's worth every company's time and effort to exploit cloud computing's potential for their business's survival and success.

Machine Learning Approach for Cloud Data Analytics in IoT The book covers the multidimensional perspective of machine learning through the perspective of cloud computing and Internet of Things ranging from fundamentals to advanced applications Sustainable computing paradigms like cloud and fog are capable of handling

issues related to performance, storage and processing, maintenance, security, efficiency, integration, cost, energy and latency in an expeditious manner. In order to expedite decision-making involved in the complex computation and processing of collected data, IoT devices are connected to the cloud or fog environment. Since machine learning as a service provides the best support in business intelligence, organizations have been making significant investments in this technology. Machine Learning Approach for Cloud Data Analytics in IoT elucidates some of the best practices and their respective outcomes in cloud and fog computing environments. It focuses on all the various research issues related to big data storage and analysis, large-scale data processing, knowledge discovery and knowledge management, computational intelligence, data security and privacy, data representation and visualization, and data analytics. The featured technologies presented in the book optimizes various industry processes using business intelligence in engineering and technology. Light is also shed on cloud-based embedded software development practices to integrate complex machines so as to increase productivity and reduce operational costs. The various practices of data science and analytics which are used in all sectors to understand big data and analyze massive data patterns are also detailed in the book.

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.

The Cloud Computing Book

Business Trends and Technologies

The Business Value of Cloud Computing

Measuring the Business Value of Cloud Computing

Principles and Paradigms

Guide to Cloud Computing

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.

The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Contains a variety of cloud computing technologies and explores how the cloud can enhance business operations Cloud Technologies offers an accessible guide to cloud-based systems and clearly explains how these technologies have changed the way organizations approach and implement their computing infrastructure. The author—a noted expert on the topic—includes an overview of cloud computing and addresses business-related considerations such as service level agreements, elasticity, security, audits, and practical implementation issues. In addition, the book

covers important topics such as automation, infrastructure as code, DevOps, orchestration, and edge computing. Cloud computing fundamentally changes the way organizations think about and implement IT infrastructure. Any manager without a firm grasp of basic cloud concepts is at a huge disadvantage in the modern world. Written for all levels of managers working in IT and other areas, the book explores cost savings and enhanced capabilities, as well as identifies different models for implementing cloud technologies and tackling cloud business concerns. This important book: Demonstrates a variety of cloud computing technologies and ways the cloud can enhance business operations Addresses data security concerns in cloud computing relevant to corporate data owners Shows ways the cloud can save money for a business Offers a companion website hosting PowerPoint slides Written for managers in the fields of business, IT and cloud computing, Cloud Technologies describes cloud computing concepts and related strategies and operations in accessible language.

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 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

GovCloud, Cloud Computing for the Business of Government

Digital Business

Cloud Application Architectures

Cloud Computing and SOA Convergence in Your Enterprise

Machine Learning Approach for Cloud Data Analytics in IoT

Cloud Computing Basics

Your organization can save and thrive in the cloud with this first non-technical guide to cloud computing for business leaders In less than a decade Google,

Amazon, and Salesforce.com went from unknown ideas to powerhouse fixtures in the economic landscape; in even less time offerings such as Linkedin, Youtube, Facebook, Twitter and many others also carved out important roles; in less than five years Apple's iTunes became the largest music retailer in North America. They all share one key strategic decision – each of these organizations chose to harness the power of cloud computing to power their drives to dominance. With roots in supercomputing and many other technical disciplines, cloud computing is ushering in an entirely new economic reality – technology-enabled enterprises built on low cost, flexible, and limitless technical infrastructures. The Executive's Guide to Cloud Computing reveals how you can apply the power of cloud computing throughout your enterprise, giving members of the C-suite a detailed look at: Why cloud computing must be a top priority on your company's IT roadmaps How the drive for scale, lower costs and greater agility is making cloud computing a fiscal and technological imperative The relationship between cloud computing and other relevant IT initiatives The strategic implications of cloud computing for the enterprise Where to begin and how to get started integrating cloud computing into your existing operations Now you can harness cloud computing's potential for your organization. Executive's Guide to Cloud Computing shows you how.

In today ' s dynamic business environment, IT departments are under permanent pressure to meet two divergent requirements: to reduce costs and to support business agility with higher flexibility and responsiveness of the IT infrastructure. Grid and Cloud Computing enable a new approach towards IT. They enable increased scalability and more efficient use of IT based on virtualization of heterogeneous and distributed IT resources. This book provides a thorough understanding of the fundamentals of Grids and Clouds and of how companies can benefit from them. A wide array of topics is covered, e.g. business models and legal aspects. The applicability of Grids and Clouds in companies is illustrated with four cases of real business experiments. The experiments illustrate the technical solutions and the organizational and IT governance challenges that arise with the introduction of Grids and Clouds. Practical guidelines on how to successfully introduce Grids and Clouds in companies are provided.

Cloud computing has caused a marketing fog, confusing business executives seeking to understand the technology's potential applications and business benefits. A Quick-Start Guide to Cloud Computing cuts through the industry hype and provides non-technical explanations about what it is and how it can improve your business. With case studies from large and small business, it shows how enabling a remote workforce

and sharing resources can reduce your organisation's carbon footprint. It describes: the benefits of cloud computing; how to choose the right supplier and technologies for your particular business; key security issues and the perils and pitfalls to avoid. This Quick Start Guide puts business needs before technology, enabling you to make confident decisions about IT strategy, make the right choices for your business and reject 'solutions' that fix problems you don't have.

Emerging as an effective alternative to organization-based information systems, cloud computing has been adopted by many businesses around the world. Despite the increased popularity, there remain concerns about the security of data in the cloud since users have become accustomed to having control over their hardware and software. Security, Trust, and Regulatory Aspects of Cloud Computing in Business Environments compiles the research and views of cloud computing from various individuals around the world. Detailing cloud security, regulatory and industry compliance, and trust building in the cloud, this book is an essential reference source for practitioners, professionals, and researchers worldwide, as well as business managers interested in an assembled collection of solutions provided by a variety of cloud users.

How Smart SMEs Are Using the Benefits of Cloud Computing to Slash Costs, Work Flexibly and Dominate Their Market (and How You Can Too)

From Distributed Computing to Cloudware Applications

A Business Perspective on Technology and Applications

A Strategy Guide for Business and Technology Leaders-- and the Rest of Us

Concepts, Technology & Architecture

Cloud Computing for Business -The Open Group Guide

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 recourses 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.

Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications unravels the mystery of cloud computing and explains how it can transform the operating contexts of business enterprises. It provides a clear understanding of what cloud computing really means, what it can do, and when it is practical to use. Addressing the primary management and operation concerns of cloudware, including performance, measurement, monitoring, and security, this pragmatic book: Introduces the enterprise applications integration (EAI) solutions that were a

first step toward enabling an integrated enterprise Details service-oriented architecture (SOA) and related technologies that paved the road for cloudware applications Covers delivery models like IaaS, PaaS, and SaaS, and deployment models like public, private, and hybrid clouds Describes Amazon, Google, and Microsoft cloudware solutions and services, as well as those of several other players Demonstrates how cloud computing can reduce costs, achieve business flexibility, and sharpen strategic focus Unlike customary discussions of cloud computing, Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications emphasizes the key differentiator—that cloud computing is able to treat enterprise-level services not merely as discrete stand-alone services, but as Internet-locatable, composable, and repackageable building blocks for generating dynamic real-world enterprise business processes.

Gain a competitive advantage and join the technology revolution helping businesses grow Discover how smart businesses are using cloud computing technology to slash IT costs, work more productively and grow faster. This easy-to-understand guide to cloud computing for business shows you: How to stop firefighting IT problems and use technology to work more effectivelyHow you can work from anywhere safely and securely with your desktop at your fingertipsHow to guarantee the security of your data and reduce the risk of hacker attacksHow to ensure your business never suffers data loss Cloud computing expert and industry veteran, Chris Brownlee, presents the most-readable, business-friendly book on The Cloud ever written. Designed for business owners and entrepreneurs, Cloud Computing For Business, explains the many benefits being realised by businesses across the globe from joining the cloud computing revolution.

A number of eminent authors take a look at aspects of application management from a range of practical and theoretical perspectives and present possible solutions for current challenges, demonstrating the close links between service creation and service management.

Cloud Computing For Dummies

Business Innovation in the Cloud

Executing on Innovation with Cloud Computing

Handbook of Research on Integrating Industry 4.0 in Business and Manufacturing

Application Management

Cloud Computing

The ubiquity of technology has not only brought the need for computer knowledge to every aspect of the modern business world; it has also increased our need to safely store the data we are now creating at a rate never experienced before. Delivery and Adoption of Cloud Computing Services in Contemporary Organizations brings together the best practices for storing massive amounts of data. Highlighting ways cloud services can work effectively in production and in real time, this book is an essential reference source for professionals and academics of various disciplines, such as computer science, consulting, information technology, information and communication sciences, healthcare, and finance.

Fully exploit new conditions and opportunities created bycurrent technological changes The combined impact of social technologies, the mobile Internet,and cloud computing are creating incredible new businessopportunities. They are also destroying unprepared companies,transforming industries, and leaving behind workers who areunwilling or unable to adapt. Business Models for the SocialMobile Cloud reveals a compelling view from PwC of how thesocial mobile cloud and a combination of new technology changes arekey players in a digital transformation in business and societythat is moving more quickly and cutting more deeply than anytechnology transformation ever seen. Explores a road map to success through adapting totechnological changes Written for businesses and leaders who want to understand howthe coming technology changes will eventually impact theirbusinesses For companies to succeed, leaders must understand how to stayahead of their competitors in adapting to the new conditions andopportunities. In Business Models for the Social MobileCloud, PwC ' s Ted Shelton

describes the tectonic changescurrently underway—and to come—plus why they arehappening, what to expect, and what you must do about. "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.

The importance of demonstrating the value achieved from IT investments is long established in the Computer Science (CS) and Information Systems (IS) literature. However, emerging technologies such as the ever-changing complex area of cloud computing present new challenges and opportunities for demonstrating how IT investments lead to business value. Recent reviews of extant literature highlights the need for multi-disciplinary research. This research should explore and further develops the conceptualization of value in cloud computing research. In addition, there is a need for research which investigates how IT value manifests itself across the chain of service provision and in inter-organizational scenarios. This open access book will review the state of the art from an IS, Computer Science and Accounting perspective, will introduce and discuss the main techniques for measuring business value for cloud computing in a variety of scenarios, and illustrate these with mini-case studies.

Business in the Cloud

Grid and Cloud Computing

Business Algorithms, Cloud Computing and Data Engineering

Security, Trust, and Regulatory Aspects of Cloud Computing in Business Environments

Moving Your Business into the Cloud

Building Applications and Infrastructure in the Cloud

In Industry 4.0, industrial productions are adjusted to complete smart automation, which means introducing self-automation methods, self-configuration, self-diagnosis of problems and removal, cognition, and intelligent decision making. This implementation of Industry 4.0 brings about a change in business paradigms and production models, and this will be reflected at all levels of the production process including supply chains and will involve all workers in the production process from managers to cyber-physical systems designers and customers as end-users. The Handbook of Research on Integrating Industry 4.0 in Business and Manufacturing is an essential reference source that explores the development and integration of Industry 4.0 by examining changes and innovations to manufacturing processes as well as its applications in different industrial areas. Featuring coverage on a wide range of topics such as cyber physical systems, integration criteria, and artificial intelligence, this book is ideally designed for mechanical engineers, electrical engineers, manufacturers, supply chain managers, logistics specialists, investors, managers, policymakers, production scientists, researchers, academicians, and students at the postgraduate level.

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.

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

GovCloud - Book Synopsis & Review The Essential Desk Reference and Guide for Managers"GovCloud is the book we have all been waiting for. We are all using the term Cloud Computing but till now we did not have a common frame of reference to help us maximize this important construct. IT professionals know you do not build anything without a plan and this book offers the blueprints and guidelines you need in order to accelerate your movement to the cloud."Bob Gourley, Former CTO Defense Intelligence Agency, Founder and CTO of Crucial Point LLC.The United States Government is the world's largest consumer of information technology, spending over $76 billion annually on more than 10,000 different systems. Fragmentation of systems, poor project execution, and the drag of legacy technology in the Federal Government have presented barriers to achieving the productivity and performance gains found when technology is deployed effectively in the private sectors.All that is about to change as the Obama Administration obliges federal departments to look to Cloud computing to cut costs and solve many of the problems that have plagued IT deployment for decades. The problem, however, is how do federal IT managers and those controlling the budgets go about deciding what is best for them.The answer is GovCloud: Cloud Computing for the Business of Government, a new book written by Kevin Jackson, an acknowledged international expert in this arena.With writer Don Philpott, he has created an easy to understand five step process that explains what cloud computing is all about and what are the best options to meet your particular needs. It discusses in detail all the latest developments in this area from administration requirements to the search for industry-wide standards.Information technology should enable government to better serve the American people. But despite spending more than $600 billion on information technology over the past decade, the Federal Government has achieved little of the productivity improvements that private industry has realized from IT, said Jackson.Too often, Federal IT projects run over budget, behind schedule, or fail to deliver promised functionality. Many projects use "grand design" approaches that aim to deliver functionality every few years, rather than breaking projects into more manageable chunks and demanding new functionality every few quarters. In addition, the Federal Government too often relies on large, custom, proprietary

systems when "light technologies" or shared services exist.The book describes the key characteristics of cloud computing and various deployment and delivery models. It contains case studies and best practices, how to set and meet goals, how to implement and use cloud computing and how to make sure it is working.Apart from increased efficiency, one of the major benefits of cloud computing is cost savings and there are worksheets on key performance indicators, return on investment cost and time indicator ratios and savings models.It is packed with practical tips, checklists and unique templates that can be used to design and implement cloud computing to meet agency specific needs. There is also a detailed glossary for those not familiar with cloud computing terms.Whether you are an IT manager tasked with developing an agency-wide cloud computing plan or a senior manager responsible for IT budgets, this is a reference book you cannot afford to be without.Reviews and Comments from Readers:- "I wrote in my book, Enterprise Cloud Computing, "In Switzerland, the famous Matterhorn casts a shadow over the town of Zermatt below. The cemetery at the foot of the mountain is a warning to those who would proceed up the steep slopes. Early pioneers who had neither maps nor guides are buried there, along with the primitive tools they thought were up to the task. Today, Swiss law prohibits the inexperienced from climbing the steep slopes without a guide. Today's business and technology professionals tasked with adopting cloud computing should heed the message sent down from the Matterhorn: A guide is needed to survive the journey ahead." Jackson and Philpott''s GovCloud is your guide to cloud computing for the business of government." - Peter FingarPeter Fingar is a Business Strategy Adviser and Author of Dot.Cloud: The 21st Century Business Platform, and Enterprise Cloud Computing. (www.peterfingar.com)"From 375 Cloud Musings since May 2008 to a 244 page book in February 2011, Kevin Jackson and his word processor must never sleep! The table of contents, which is really a taxonomy of Government Cloud Computing, is worth the price of the book alone. I highly recommend this excellent resource for both those new and experienced in this exciting new field. Well done, Kevin!" - Brand NiemanBrand L. Niemann recently retired from the U.S. Environmental Protection Agency as a Computer Scientist and XML and Web Services Specialist in the Office of Environmental Information. He has received awards and recognitions for his work from the U.S. EPA, the U.S. Department of the Interior, the US Geological Survey, LOTUS, and ComputerWorld-Smithsonian."A very practical guide and a must-read for every government CIO and CTO." - Bob FloresBob Flores is the Founder, President, and CEO of Applicology Incorporated, an independent consulting firm specializing in information technology issues. Prior to this, Bob spent 31 years at the Central Intelligence Agency. While at CIA, Bob held various positions in the Directorate of Intelligence, Directorate of Support, and the National Clandestine Service. Toward the end of his career, Bob spent three years as the CIO's Chief Technology Officer where he was responsible for ensuring that the Agency's technology investments matched the needs of its mission. During this time Bob was also the Agency's representative on several government-wide information sharing committees and councils.- "Every Federal agency should approach cloud computing with a focus on improving mission execution and extending the value of critical Enterprise investments. 'GovCloud' provides excellent guidance for this important transition".Jody Tedesco, President & CEO, NJVC

Technology and Practices

Challenges - Service Creation - Strategies

A Step-by-Step Guide

Cloud Computing for Enterprise Architectures

Impacts and Challenges of Cloud Business Intelligence

Cloud Computing and Digital Media

"True to form, Melvin Greer's futurist thinking provides new applicability to Software as a Service that identifies ways of reducing costs, creating greater efficiencies, and ultimately providing significant long-term value through business transformation. He continues to be on the cutting edge of merging business function evolution and technology innovation to increase customer satisfaction and return on investments." -Kevin Manuel-Scott, chairman and CEO, RONIN IT Services, LLC "Melvin Greer provides an excellent guide to the Cloud computing IT model with a solid overview of concepts, business aspects, technical implications, benefits, challenges, and trends. Definitely a 'must read' for IT managers and enterprise architects considering adoption of this flexible, beneficial business model within their organization." -John Magnuson, senior staff engineer, Lockheed Martin "This book offers the most comprehensive view of Cloud computing and SaaS on the market today. The author skillfully lays out a game plan for government and commercial entities alike looking to stay relevant in this burgeoning business paradigm." -Ken Brown, program account executive, IBM Federal Almost every business reaches a time when the fundamentals change. This time is referred to as a strategic inflection point. Adopting new technology or fighting the competition may not be enough when these critical moments arise. That's because inflection points build up force so quickly that organizations may have a hard time even putting a finger on what has changed. The way a firm responds could propel it to new heights or lead to its demise. Over the last few years, industry has begun developing a model of information technology known as Cloud computing, which includes Software as a Service. This new model has reached an inflection point and will give users the choice to purchase IT as a service, as a complement to, or as a replacement of the traditional IT software/hardware infrastructure purchase. It's time for businesses to transform how they approach advanced software and innovative business models so they can achieve real agility. If you are a decision maker involved with the deployment of information technology, then it's imperative that you understand "Software as a Service Inflection Point."

This edited book presents contributions from three different areas: cloud computing, digital mess and business algorithms on a single platform, i.e. Digital Business. The book is divided into four sections: (i) Digital Business Transformation, (ii) Cloud Computing, (iii) IOT & Mobility, and (iv) Information Management & Social Media, which are part of a holistic approach to information management and connecting the value chains of businesses to derive more throughput in the entire business ecosystem. Digital business is a niche area of computer science and business management, and its dimension is vast – it includes technologies such as cloud computing, Internet of Things, mobile platforms, big data applied in areas like ERP, data mining and business intelligence. Digital technologies have also challenged existing business models and will continue to do so. One of the key driving forces is the capacity of innovation and the commercialization of information and communication technologies. Providing insights into the new paradigm of digital business, the book is a valuable resource for research scholars, academics and professionals.

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.

Explains what cloud computing is and how this new technology is being used to make lives easier.

Best Practices for Transforming Legacy IT

Cloudonomics

Software As a Service Inflection Point

Executive's Guide to Cloud Computing

Cloud Technologies

Guide to Cloud Computing for Business and Technology Managers

If you're involved in planning IT infrastructure as a network or system architect, system administrator, or developer, this book will help you

adapt your skills to work with these highly scalable, highly redundant infrastructure services. While analysts hotly debate the advantages and risks of cloud computing, IT staff and programmers are left to determine whether and how to put their applications into these virtualized services. Cloud Application Architectures provides answers -- and critical guidance -- on issues of cost, availability, performance, scaling, privacy, and security. With Cloud Application Architectures, you will: Understand the differences between traditional deployment and cloud computing Determine whether moving existing applications to the cloud makes technical and business sense Analyze and compare the long-term costs of cloud services, traditional hosting, and owning dedicated servers Learn how to build a transactional web application for the cloud or migrate one to it Understand how the cloud helps you better prepare for disaster recovery Change your perspective on application scaling To provide realistic examples of the book's principles in action, the author delves into some of the choices and operations available on Amazon Web Services, and includes high-level summaries of several of the other services available on the market today. Cloud Application Architectures provides best practices that apply to every available cloud service. Learn how to make the transition to the cloud and prepare your web applications to succeed.

The ultimate guide to assessing and exploiting the customervalue and revenue potential of the Cloud A new business model is sweeping the world—the Cloud. And,as with any new technology, there is a great deal of fear,uncertainty, and doubt surrounding cloud computing.Cloudonomics radically upends the conventional wisdom,clearly explains the underlying principles and illustrates throughunderstandable examples how Cloud computing can create compellingvalue—whether you are a customer, a provider, a strategist,or an investor. Cloudonomics covers everything you need toconsider for the delivery of business solutions, opportunities, andcustomer satisfaction through the Cloud, so you can understandit—and put it to work for your business. Cloudonomicsalso delivers insight into when to avoid the cloud, and why. Quantifies how customers, users, and cloud providers cancollaborate to create win-wins Reveals how to use the Laws of Cloudonomics to define strategyand guide implementation Explains the probable evolution of cloud businesses andecosystems Demolishes the conventional wisdom on cloud usage, IT spend,community clouds, and the enterprise-provider cloud balance Whether you're ready for it or not, Cloud computing is here tostay. Cloudonomics provides deep insights into the businessvalue of the Cloud for executives, practitioners, and strategistsin virtually any industry—not just technology executives butalso those in the marketing, operations, economics, venturecapital, and financial fields.

Cloud computing provides an easier alternative for starting an IT-based business organization that requires much less of an initial investment. Cloud computing offers a significant edge of traditional computing with big data being continuously transferred to the cloud. For extraction of relevant data, cloud business intelligence must be utilized. Cloud-based tools, such as customer relationship management (CRM), Salesforce, and Dropbox are increasingly being integrated by enterprises looking to increase their agility and efficiency. Impacts and Challenges of Cloud Business Intelligence is a cutting-edge scholarly resource that provides comprehensive research on business intelligence in cloud computing and explores its applications in conjunction with other tools. Highlighting a wide range of topics including swarm intelligence, algorithms, and cloud analytics, this book is essential for entrepreneurs, IT professionals, managers, business professionals, practitioners, researchers, academicians, and students.

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.

The Future of Computing Explained

Using Cloud Computing to Achieve Business Agility

Principles and Practice

What Every Business Needs to Know About Cloud Computing

An Overview of Cloud Computing Technologies for Managers

Transform Your Business Using Social Media, Mobile Internet, and Cloud Computing

This book brings together The Open Group's set of publications addressing risk management, which have been developed and approved by The Open Group. It is presented in three parts: The Technical Standard for Risk Taxonomy Technical Guide to the Requirements for Risk Assessment Methodologies Technical Guide: FAIR – ISO/IEC 27005 Cookbook Part 1: Technical Standard for Risk Taxonomy This Part provides a standard definition and taxonomy for information security risk, as well as information regarding how to use the taxonomy. The intended audience for this Part includes anyone who needs to understand and/or analyze a risk condition. This includes, but is not limited to: Information security and risk management professionals Auditors and regulators Technology professionals Management This taxonomy is not limited to application in the information security space. It can, in fact, be applied to any risk scenario. This means the taxonomy to be used as a foundation for normalizing the results of risk analyses across varied risk domains. Part 2: Technical Guide: Requirements for Risk Assessment Methodologies This Part identifies and describes the key characteristics that make up any effective risk assessment methodology, thus providing a common set of criteria for evaluating any given risk assessment methodology against a clearly defined common set of essential requirements. In this way, it explains what features to look for when evaluating the capabilities of any given methodology, and the value those features represent. Part 3: Technical Guide: FAIR – ISO/IEC 27005 Cookbook This Part describes in detail how to apply the FAIR (Factor Analysis for Information Risk) methodology to any selected risk management framework. It uses ISO/IEC 27005 as the example risk assessment framework. FAIR is complementary to all other risk assessment models/frameworks, including COSO, ITIL, ISO/IEC 27002, COBIT, OCTAVE, etc. It provides an engine that can be used in other risk models to improve the quality of the risk assessment results. The Cookbook enables risk technology practitioners to follow by example how to apply FAIR to other risk assessment models/frameworks of their choice.

Cloud Computing and Digital Media: Fundamentals, Techniques, and Applications presents the fundamentals of cloud and media infrastructure, novel technologies that integrate digital media with cloud computing, and real-world applications that exemplify the potential of cloud computing for next-generation digital media. It brings together technologie

Business Models for the Social Mobile Cloud

Fundamentals, Techniques, and Applications