

**Cloud Computing For Banking Ibm United States**

*Security is a major consideration in the way that business and information technology systems are designed, built, operated, and managed. The need to be able to integrate security into those systems and the discussions with business functions and operations exists more than ever. This IBM® Redbooks® publication explores concerns that characterize security requirements of, and threats to, business and information technology (IT) systems. This book identifies many business drivers that illustrate these concerns, including managing risk and cost, and compliance to business policies and external regulations. This book shows how these drivers can be translated into capabilities and security needs that can be represented in frameworks, such as the IBM Security Blueprint, to better enable enterprise security. To help organizations with their security challenges, IBM created a bridge to address the communication gap between the business and technical perspectives of security to enable simplification of thought and process. The IBM Security Framework can help you translate the business view, and the IBM Security Blueprint describes the technology landscape view. Together, they can help bring together the experiences that we gained from working with many clients to build a comprehensive view of security capabilities and needs. This book is intended to be a valuable resource for business leaders, security officers, and consultants who want to understand and implement enterprise security by centering a set of core security capabilities and services.*

*Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing The formula for the Future of Work is called SMAC - social, mobile, analytics and cloud on one integrated stack where each function enables another to maximize its effect. This is the new enterprise IT model delivering an organization that is more connective, collaborative, real time and productive. This book provides a comprehensive view of how SMAC Technologies are impacting the entire banking "eco-system" as well as the key stakeholders, namely customers, employees and partners.*

*A practical, user-friendly guide that provides an introduction to cloud computing using IBM SmartCloud, along with a thorough understanding of resource management in a cloud environment. This book is great for anyone who wants to get a grasp of what cloud computing is and what IBM SmartCloud has to offer. If you are an IT specialist, IT architect, system administrator, or a developer who wants to thoroughly understand the cloud computing resource model, this book is ideal for you. No prior knowledge of cloud computing is expected.*

**Cloud Computing Handbook of Cloud Computing Procurement Finance SMACing the Bank**

**Transaction Processing: Past, Present, and Future Data Analytics for Business**

The role of IT is becoming more prominent in people's daily lives and we are becoming increasingly dependent on computers. More and more business transactions are being automated, for example, ordering a book at an online bookstore or transferring money to a bank account in another part of the world. No matter the type of transaction, we want it to be accurate and we want to have no doubts about its outcome. Transactions are also becoming more complex, driven by new ways of conducting business and new technologies. Smartphones now allow us to conduct transactions anywhere and at anytime. Technology paradigms, such as Web 2.0 and business event processing, enable businesses to increase the dynamics of a transaction through location and time. The Internet has become a more available and more interactive medium. To adapt to the increasing volume and complexity of transactions requires an ongoing assessment of the current way of supporting transactions with IT. No matter what your business is, you need to ensure that your transactions are properly completed with integrity. Wrong or incomplete results can adversely affect client loyalty, affect company profits, and lead to claim lawsuits, or fines. Companies need to be able to rely on computer systems that are 100% reliable and guarantee transaction integrity at all times. The IBM® mainframe is such a platform. Clients that have been using an IBM mainframe are conscious of its added value. For this IBM Redguide™ publication, we surveyed a number of companies that use the IBM mainframe and we asked them to tell us its most distinguishing qualities. They answered unanimously "reliability, availability, and scalability." They also do not see an alternative for running their mission-critical business workloads other than the IBM mainframe. When we surveyed our clients, we also asked them about the future. Clearly, major future trends demand significantly smarter, faster, and bigger transaction processing systems than we have today. Some of these trends are the availability of new computing paradigms, continuing growth of the mobile channel, further integration of organizations, massive growth of unstructured and uncertain data, and increasing complexity of IT systems. IBM continues to invest in mainframe technology leadership, which protects years of client investments on this platform. Today, well-known transaction processing (TP) middleware, such as the IBM CICS, IBM IMS, IBM z/TPF, and IBM WebSphere Application Server products, and also solutions for service-oriented architecture (SOA) and business process management (BPM) are available and fully optimized on the IBM mainframe running the mission-critical business workloads of many companies the world over. In 2010, IBM announced the IBM zEnterprise® system introducing a hybrid computing platform that combines the traditional IBM mainframe capabilities and the ability to use IBM blade servers, managed by a single management software. With zEnterprise, you can significantly reduce the complexity of your IT and achieve better service levels, while continuing to benefit from traditional mainframe strengths in transaction processing. Batch performance optimization remains an important topic for many companies today, whether merging workloads, supporting growth, reducing cost or extending the online day. This IBM® Redpaper™ publication describes a general approach that can be used to optimize the batch window in a z/OS® environment. This paper outlines a structured methodology using anti-patterns and tools that can be followed to increase batch productivity.

**Distributed and Cloud Computing:** From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or e-commerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with a list of more available online resources. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

The IT sector is full of hype. But once in a while there is a genuine inflection point, a moment at which the way of doing things fundamentally changes due to the introduction of new technologies. The rise of cloud computing is just such an inflection point. Cloud computing is the next stage of the Internet computing model, one in which organizations will consume services, not technologies. These services will be ready to run, available outside the office walls, and be paid for on the basis of usage, just like water or electricity. As the cloud and services model matures, not only will businesses be able to solve old problems more inexpensively and rapidly, they will also be able to address new challenges that were previously out of reach. Cloud computing promises a more flexible "services" model for IT systems that puts the business unit or end user at the center of the process. In this way, both the IT organization and the business itself become more agile. At the same time, cloud computing promises to reduce the delivered cost of IT through a greater degree of resource utilization, automation, and self-service.

Traditional IBM mainframe capabilities and the ability to use IBM blade servers, managed by a single management software. With zEnterprise, you can significantly reduce the complexity of your IT and achieve better service levels, while continuing to benefit from traditional mainframe strengths in transaction processing. This book is a comprehensive introduction to cloud computing and its most prominent enabling technology: virtualization. In the first part, you are guided through the visions, concept and models behind cloud computing. You will learn how your organization can profit from cloud-enabling technologies and how you can incorporate them in your IT infrastructure. Part II of this book consists of "Industry Outlooks": in depth articles from industry experts. Part III offers a series of useful case stories, covering a broad diversity of virtualization and cloud-related issues. Further to the development of this book, the development team that is responsible for the content of this book, has developed a certification program on Cloud computing, the Cloud Certification Program. This vendor-neutral Cloud Certification Program provides professionals with the opportunity to obtain globally recognized credentials in cloud computing. The CompTIA Cloud Essentials course Exam is intended for IT professionals who wish to certify that they have the required knowledge and understanding required to complete and pass the CompTIA Cloud Essentials™ Exam on cloud computing. Anyone who passes this exam to obtain the CompTIA Cloud Essentials™ Professional certificate.

**IBM MQ as a Service: A Practical Approach IBM Technical Computing Clouds Computer Engineering: Concepts, Methodologies, Tools and Applications A Case Study on Cloud Computing Architecture Design for Bank Industry Information Systems Outsourcing**

This IBM® Redbooks® publication helps you with the planning, installation, and configuration of the new IBM Spectrum® Archive Enterprise Edition (EE) Version 1.3.2.2 for the IBM TS4500, IBM TS3500, IBM TS4300, and IBM TS3310 tape libraries. IBM Spectrum Archive Enterprise Edition enables the use of the LTFs for the policy management of tape as a storage tier in an IBM Spectrum Scale based environment. It also helps encourage the use of tape as a critical tier in the storage environment. This edition of this publication is the tenth edition of IBM Spectrum Archive Installation and Configuration Guide. IBM Spectrum Archive EE can run any application that is designed for disk files on a physical tape media. IBM Spectrum Archive EE supports the IBM Linear Tape-Open (LTO) Ultrium 9, 8, 7, 6, and 5 tape drives, and the IBM TS1160, TS1155, TS1150, and TS1140 tape drives. IBM Spectrum Archive EE can play a major role in reducing the cost of storage for data that does not need the access performance of primary disk. The use of IBM Spectrum Archive EE to replace disks with physical tape in tier 2 and tier 3 storage can improve data access over other storage solutions because it improves efficiency and streamlines management for files on tape. IBM Spectrum Archive EE simplifies the use of tape by making it transparent to the user and manageable by the administrator under a single infrastructure. This publication is intended for anyone who wants to understand more about IBM Spectrum Archive EE planning and implementation. This book is suitable for IBM customers, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

Organizations are looking for ways to get more out of their already strained IT infrastructure as they face new technological and economic pressures. They are also trying to satisfy a broad set of users (internal and external to the enterprise) who demand improvements in their quality of service (QoS), regardless of increases in the number of users and applications. Cloud computing offers attractive opportunities to reduce costs, accelerate development, and increase the flexibility of the IT infrastructure, applications, and services. Infrastructure as a service (IaaS) is the typical starting point for most organizations when moving to a cloud computing environment. IaaS can be used for the delivery of resources such as compute, storage, and network services through a self-service portal. With IaaS, IT services are delivered as a subscription service, eliminating up-front costs and driving down ongoing support costs. IBM® has defined the Cloud Computing Reference Architecture (CCRA) based on years of experience of working with customers who have implemented cloud-computing solutions. The IBM CCRA is a blueprint or guide for architecting cloud-computing implementations. This IBM Redguide™ publication highlights the Cloud Enabled Data Center adoption pattern and describes how you can use it to define an IaaS solution. This guide is intended for chief technology officers, data center architects, IT architects, and application architects who want to understand the cloud-computing infrastructure necessary to support their applications and services by using an IaaS solution. It explains the technical and business benefits of a Cloud Enabled Data Center solution. It introduces a Cloud Enabled Data Center maturity model where each maturity level corresponds to an increase in the degree of automation and the cloud-computing capabilities that are available. In addition, this guide describes the architectural framework provided by the IBM CCRA and explains details about the Cloud Enabled Data Center adoption pattern.

Build a comprehensive web portal for your company with the coverage of full development life cycle with this book and ebook.

"This reference is a broad, multi-volume collection of the best recent works published under the umbrella of computer engineering, including perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field"--Provided by publisher.

**Theory and Practice Approaches to Optimize Batch Processing on z/OS Essentials of Application Development on IBM Cloud How to Use Social Media, Mobility, Analytics and Cloud Technologies to Transform the Business Processes of Banks and the Banking Experience The Cloud Adoption Playbook Proven Strategies for Transforming Your Organization with the Cloud**

*Discover the future of the financial services industry with this insightful new resource on Contextual and Conscious Banking In Banks and Fintech on Platform Economies: Contextual and Conscious Banking, accomplished fintech professional and author Paolo Sironi delivers an insightful examination of how platform theory, born outside of financial services, will make its way inside banking and financial markets to radically transform the way firms do business. You'll learn why the financial services industry must master the necessary shift of focus from selling business outputs to selling client outcomes. You'll also discover how to steer the industry towards new forms of digital transformation underpinned by Contextual Banking and Conscious Banking platform strategies that will benefit stakeholders of all kinds. This important book: Describes the shift in mindset necessary to help banks strengthen and extend the reach of the Platform Economy and Banking as a Platform operations. Shows how a renewed interpretation of fundamental uncertainty inspires the usage of exponential technologies to achieve architectural resilience, and open the reference theory to spring new business models centered on clients' and ecosystems' antifragility. Financial services industry can break-out from a narrow space of value-generation to reclaim top spot against bigtech contenders, enjoying greater flexibility and adaptability at lower digital costs Perfect for CEOs, business leaders, regulators, fintech entrepreneurs, wealth managers, behavioral finance researchers and professionals working at financial technology companies, Banks and Fintech on Platform Economies will also earn a place in the libraries of bankers seeking a firm grasp of the rapidly evolving open economy and a view about the future of the industry. Technology makes life easy. People contact banks in their day to day life activity. And also the banks are committed to serve their customers with the help of currently advanced technology. The aim of a bank is to give consistent and satisfactory banking services for the customers. The use of advanced technology in banking requires sophisticated knowledge of the technology and expertise and a large number of employees are required for implementation and management of that system. Cloud computing makes easy the management of IT infrastructure and the bank sector systems. Cloud service providers provide three basic types of services: infrastructure as a service, software as a service and platform as a service. In a cloud environment, there are concerns in the security and confidentiality of the data placed at the cloud. The main purpose of the study is design the cloud computing architecture for Dashed bank, which will reduce the labor need for managing IT infrastructure and system and enhance the use of technology with the required security verification. The study focused on designing aspects of cloud computing. The study used interview, observation and document analysis to gather the data. The interview was conducted on the selected department and employee of the bank. The observation was at the data center of the Dashed bank using a checklist. All the required data was collected from the head quarter of Dashed bank. The study revealed the management of the bank recognized the potential benefit of cloud computing and has started dealing with companies like Microsoft and IBM to adopt the technology. However, because of the absence of regulatory framework and security concerns, immediate adoption of cloud computing tend to difficult. Future researcher needs to focus on assessing and developing an appropriate security system for banking sector. In addition, appropriate policy and procedure needs to be crafted by the regulatory body like NBE and ICT. The Practical Approach to the World's #1 Cloud Platform Includes access to several hours of online training video: Mark Wilkins' expert training video library guides you through setting up core services and prepares you to deploy your own apps and resources. Learning Amazon Web Services (AWS) is the perfect foundational resource for all administrators, developers, project managers, and other IT professionals who want to plan and deploy AWS services and/or earn AWS certification. Top cloud trainer and evangelist Mark Wilkins teaches best practices that align with Amazon's Well-Architected Framework, introduces key concepts in the context of a running case study, carefully explains how core AWS services operate and integrate, and offers extensively tested tips for maximizing flexibility, security, and value. Companion online videos guide you step-by-step through setting AWS compute, storage, networking, scale, security, automation, and more. Balance cost, compliance, and latency in your service designs Choose the right networking options for your virtual private cloud (VPC) Build, host, launch, manage, and budget for EC2 compute services Plan for scale and resiliency, and make informed decisions about AWS storage Enforce strict security, and automate to improve operational efficiency This book with companion training videos is a valuable learning tool for anyone seeking to demonstrate expertise through formal certification. WEB EDITION: All buyers of the book or ebook can register your book for access to a free online Web Edition of this title, which included videos embedded within the text, plus updates as they become available.*

*This IBM® Redbooks® publication is based on the Presentations Guide of the course A Practical Approach to Cloud IaaS with IBM SoftLayer, which was developed by the IBM Redbooks team in partnership with IBM Middle East and Africa University Program. This course is designed to teach university students how to build a simple infrastructure as a service (IaaS) cloud environment based on IBM SoftLayer®. It provides students with the fundamental skills to design, implement, and manage an IaaS cloud environment using the IBM SoftLayer platform as an example. The primary target audience for this course is university students in undergraduate computer science and computer engineer programs with no previous experience working in cloud environments. However, anyone new to cloud computing can benefit from this course. The workshop materials were created in July 2015. Thus, all IBM SoftLayer features discussed in this Guide are current as of July 2015.*

**Temenos on IBM LinuxONE Best Practices Guide The Era of Digital Transformation The Digital Revolution in Commercial Banking Banks and Fintech on Platform Economies IBM SmartCloud: Building a Cloud Enabled Data Center Computer Yearbook**

This IBM® Redpaper™ publication provides information about how to build, deploy, and use IBM MQ as a service. The information in this paper includes the key factors that must be considered while planning the use of IBM MQ as a service. Through descriptions and examples, this paper explains how to apply as a service methodologies to an IBM MQ environment, and describes techniques and preferred practices for integrating IBM MQ into a self-service portal. This paper explains how to create and use an IBM MQ as a service self-service menu for a portal. It includes examples that show how to use an IBM MQ as a service catalog. The information in this paper is intended for IBM MQ administrators, architects, and developers who are evaluating IBM MQ as a service. IBM MQ as a service infrastructure options that can be selected when implementing IBM MQ as a service. The information in this paper helps infrastructure administrators to define services so that you can provision IBM MQ resources quickly. The target audiences of this paper are developers, infrastructure administrators, and line-of-business (LOB) professionals who want to provision IBM MQ resources to be accessed as services in small, medium, large, and complex implementations.

The world's most successful banks run on IBM®, and increasingly IBM LinuxONE. Temenos, the global leader in banking software, has worked alongside IBM for many years on banking deployments of all sizes. This book marks an important milestone in that partnership. Temenos on IBM LinuxONE Best Practices Guide shows financial organizations how they can combine the power and flexibility of the Temenos solution with the IBM platform that is purpose built for the digital revolution.

IBM® is quickly evolving from a desktop-centric banking and digital banking based on strings and XML cards to a new era based on a variety of smart devices, their applications and digital wireless transmissions. These smart devices include a new era based on a variety of units including smartphones, tablets and a variety of new digital computing devices, mostly smart programs and wireless scanning devices. They are communicating via the internet with remote databases, many in Cloud configuration. Most will have migrated to a "secure" Internet using the new SPARC Security Solutions. They will no longer require conventional PINs, Passwords or Encryption. No longer will Smart Device use the subject to (1) misuse of loss/stolen devices; (2) misuse of overhead wireless transmissions between a smart device and the internet modem; and (3) you will not be subject to downloaded fraudulent applications, malware or viruses. Reading this book and it's companion "Secure Your Internet Use", both available now!

This IBM® Redbooks® publication is designed to teach university students and app developers the foundation skills that are required to develop, test, and deploy cloud-based applications on IBM Cloud. It shows the latest features of IBM Cloud for developing cloud applications, enhancing applications by using managed services, and the use of DevOps services to manage applications. This book is used as presentations guide for the IBM Skills Academy track Cloud Application Developer and as preparation material for the IBM professional certification exam IBM Certified Application Developer - Cloud Platform. The primary target audience for this course is Business Model Transformation.

**The AI & Cloud Technology Revolution Distributed and Cloud Computing Get Ready for Cloud Computing - 2nd edition Using the IBM Security Framework and IBM Security Blueprint to Realize Business-Driven Security Performance and Capacity Themes for Cloud Computing**

This IBM® Redpaper™ is the second in a series that addresses the performance and capacity considerations of the evolving cloud computing model. The first Redpaper publication (Performance Implications of Cloud Computing, REDP-4875) introduced cloud computing with its various deployment models, support roles, and offerings along with IT performance and capacity implications associated with these deployment models and offerings. In this redpaper, we discuss lessons learned in the two years since the first paper was written. We offer practical guidance about how to select workloads that work best with cloud computing, and about how to address areas, such as performance testing, monitoring, service level agreements, and capacity planning considerations for both single and multi-tenancy environments. We also provide an example of a recent project where cloud computing solved current business needs (such as cost reduction, optimization of infrastructure utilization, and more efficient systems management and reporting capabilities) and how the solution addressed performance and capacity challenges. We conclude with a summary of the lessons learned and a perspective about how cloud computing can affect performance and capacity in the future.

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud computing, mobile computing, and IBM MQ as a service that is tailored to the specific enterprise messaging needs of an organization. Although these techniques can be employed in a cloud environment, they are equally applicable in an on-premises enterprise data center. This paper includes information about the various programs, IBM Kai Huang/MiSynapse, Blenmix projects, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples.

Cloud computing opens a broad range of business opportunities across the computing industry and enables companies in other industries to provide services to their employees, customers, and partners. Cloud computing provides a compelling approach to addressing this opportunity. The IBM® SmartCloud™ for Services Portfolio for cloud computing. Companies rely on their business and X-Lab programs as an integral part of their business. They can expand the business value of their applications and systems by using cloud computing to enable delivery of these functions as services. Companies have various options when adopting cloud computing. They can: Use existing service providers to operate services on their behalf. Implement hybrid solutions that extend existing applications through integration with cloud services. Add cloud service hosting capability to their existing facilities. For ecosystem partners, cloud computing provides compelling capabilities that ease deployment and long term management and maintenance. Equally important, cloud computing facilitates a more flexible business and technical environment. This environment can expand, contract, and adapt as services are added, removed, and evolve. The cloud replaces physical activities associated with change and change management by creating a fluid environment that adapts through automation. This IBM Redguide™ publication describes the business and technology choices companies make when entering the cloud service provider space. It introduces various cloud service provider business models and shows how to apply them to your business. This guide introduces the IBM CCRA cloud service provider adoption pattern, providing guidance about the definition, architecture, and deployment of cloud computing environments. Two cloud service deployment models are described in this guide, as they reflect the two most common starting points for service providers entering the cloud computing marketplace. The guide culminates with details about these deployment scenarios, and showing how they can be deployed today.

This IBM® Redbooks® publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures, optimize energy usage, or re-use the infrastructure. This book strengthens IBM SmartCloud® solutions, in particular IBM Technical Computing clouds, with a well-defined and documented deployment model within an IBM System x® or an IBM Flex System™. This provides clients with a cost-effective, highly scalable, robust solution with a planned foundation for scaling, capacity, resilience, optimization, automation, and monitoring. This book is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing cloud-computing solutions and support.

**IBM SmartCloud: Becoming a Cloud Service Provider High Availability and Disaster Recovery for Temenos T24 with IBM DB2 and Aix Building Cognitive Applications with IBM Watson Services: Volume 1 Getting Started Cloud Computing for Machine Learning and Cognitive Applications The Social Factor Bank on Your Smart Device 2026**

A large opportunity exists for Australian organisations to use new and powerful technologies (Artificial intelligence [AI] and Cloud technologies) to transform their businesses to keep pace with or ahead of the leading edge of competitiveness. This book showcases inspirational Australian case studies in order to inspire Australian (and non-Australian) organisations to book synthesises the key learnings and contrasts those with the conventional wisdom on this topic. The book also defines what AI- and Cloud-based business transformations are and what they can do for businesses. Furthermore, it explains why it is imperative that businesses should address the business opportunities of these technological advancements, without any more than the "literacy" that is necessary for business leaders. Finally, it also includes international best practice case studies beyond the usual suspects. This book provides guidance and motivation for business executives, managers and students interested in innovating and transforming their businesses through the use of the two critical new technologies. If you create, manage, operate, or configure systems running in the cloud, you're a cloud engineer—even if you work as a system administrator, software developer, data scientist, or site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing landscape, from procurement to financial management, and delve into security and compliance, operations and reliability, and software development. And examine networking, organizational culture, and more. You're sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. "Three Keys to Making the Right Multicloud Decisions." Brendan O'Leary "Manages Jesus Galindo Bello "Failing a Cloud Migration." Lee Atchison "Treat Your Cloud Environment as If It Were On Premises." Ilyana Garcia "What Is Toil, and Why Are SREs Obsessed with It?" Zachary Nickens "Lean QA: The QA Evolving in the DevOps World." Theresa Neate "How Economies of Scale Work in the Cloud." Jon Moore "The Cloud Is Not About the Cloud." Gravity: The Importance of Data Management in the Cloud." Geoff Hughes "Even in the Cloud, the Network Is the Foundation." David Murray "Cloud Engineering Is About Culture, Not Containers." Holly Cummins Harness the Power of Social Networking to Promote Innovation and Drive Growth A treasure trove of strategic and tactical insights for the business leader Provides relevant experience from a host of powerful case studies and compelling business scenarios Secrets for avoiding costly mistakes that can cripple a social networking initiative Millions of people use social media, and companies are increasingly turning to social networking to build relationships with customers. But companies routinely miss the best opportunities to create value and promote innovation—by using social networking to build thriving communities of employees, partners, and customers. Business leaders and strategists can drive immense value from social networking, but her unpassed experience deploying innovative social networking systems within IBM® and for customers, Maria Azua demonstrates how to establish social networking communities, and then leverage those communities to drive extraordinary levels of innovation. Azua offers specific techniques for promoting mass collaboration in the enterprise and strategies to generate new business opportunities. Whatever your industry, you'll learn how to choose and implement the right social networking solutions for your unique challenges...how to avoid false starts and wasted time...and how to evaluate and make the most of today's most promising social technologies—from wikis and blogs to knowledge clouds.

This book highlights research that contributes to a better understanding of emerging challenges in information systems (IS) outsourcing. Important topics covered include: how to digitally innovate through IS outsourcing; how to govern outsourced digitalization projects; how to cope with complex multi-vendor and micro-services arrangements; how to manage data including issues of cybersecurity; and how to cope with the increasing demands of internationalization and new sourcing models, such as crowdsourcing, cloud sourcing and robotic process automation. These issues are approached from the client's perspective, vendor's perspective, or both. Given its scope, the book will be of interest to all researchers and students in Information Systems, Management, and Organization, as well as corporate executives and professionals seeking a more profound analysis of the underlying factors and mechanisms of outsourcing.

**Concepts, Methodologies, Tools and Applications From Parallel Processing to the Internet of Things Digital Business Learning Amazon Web Services (AWS) 97 Things Every Cloud Engineer Should Know IBM® SmartCloud® Essentials**

This book presents a business model on how to structure the relationship between financial services and procurement. The need for new models is particularly important to support small and medium enterprises (SMEs) where there is an evident difficulty in accessing credit. Due to this context, innovative solutions must be introduced. The objective of this book is to determine how innovation can support the dynamic and volatile international context and the increasingly relevant function of procurement. It is becoming more and more important to take into account complex international transactions with notably long payment terms. Organizations need to manage the best way to handle the financial relationships and the risks related to credit provision and payments. This book presents an end-to-end support to procurement, including trade finance, supply chain finance, and related payments. In addition, the enterprises need to keep sufficient liquidity levels in the short and medium term. This is a constant challenge today, with the turbulence of financial markets and a continuing climate of economic uncertainty making it harder to obtain external funding. Businesses need to optimize the working capital. This can be done through the financial procurement of finance, which allows SMEs to benefit to the new vision of collaborative procurement. This book provides several practical examples of advanced procurement finance solutions. It demonstrates how the use of process improvement and technology can help in overcoming the current financial difficulties. In addition, based on the business model presented, the integrated approach to procurement finance allows sustainable solutions, which will be of interest to academics, researchers, managers, and practitioners in both buyer and vendor companies, as well as in banks and other financial institutions.

This IBM® Redpaper™ publication takes you on a journey that surveys cloud computing to answer several fundamental questions about storage cloud technology. What are storage clouds? How can a storage cloud help solve your current and future data storage business requirements? What can IBM do to help you implement a storage cloud solution that addresses these needs? This paper shows how IBM storage clouds use the extensive cloud computing experience, services, proven technologies, and products of IBM to support a smart storage cloud solution designed for your storage optimization efforts. Clients face many common storage challenges and some have variations that make them unique. It describes various successful client storage cloud implementations and the options that are available to meet your current needs and position you to avoid storage issues in the future. IBM Cloud™ Services (IBM Cloud Managed Services® and IBM SoftLayer®) are highlighted as well as the contributions of IBM to OpenStack cloud storage. This paper is intended for anyone who wants to learn about storage clouds and how IBM addresses data storage challenges with smart storage cloud solutions. It is suitable for IBM clients, storage solution integrators, and IBM specialist sales representatives.

Cloud computing has become a significant technology trend. Experts believe cloud computing is currently reshaping information technology and the IT marketplace. The advantages of using cloud computing include cost savings, speed to market, access to greater computing resources, high availability, and scalability. Handbook of Cloud Computing includes contributions from world experts in the field of cloud computing from academia, research laboratories and private industry. This book presents the systems, tools, and services of the leading providers of cloud computing; including Google, Yahoo, Amazon, IBM, and Microsoft. The basic concepts of cloud computing and cloud computing applications are also introduced. Current and future technologies applied in cloud computing are also discussed. Case studies, examples, and exercises are provided throughout. Handbook of Cloud Computing is intended for advanced-level students and researchers in computer science and electrical engineering as a reference book. This handbook is also beneficial to computer and system infrastructure designers, developers, business managers, entrepreneurs and investors within the cloud computing related industry.

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 to choose the right cloud computing solution for your business, and 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.

**In the Digital Age A Hands-On Guide to the Fundamentals of AWS Cloud A Practical Approach to Cloud IaaS with IBM SoftLayer: Presentations Guide Contextual and Conscious Banking Row and Column Access Support in IBM DB2 for i IBM Spectrum Archive Enterprise Edition V1.3.2.2: Installation and Configuration Guide**

*Data analysts underpin ongoing data-driven operations. This book provides an analysis at the firm and industry levels, tracing the evolution and key components of the field, and showing how data analytics insights can be leveraged for business results. The first section of the text covers key topics such as data analytics tools, data mining, business intelligence, customer relationship management, and cybersecurity. The chapters then take industry leaders by the hand in explaining the key to success in capturing, storing, streamlining business decision-making. A range of sectors are examined, including financial services, accounting, marketing, sport, health care, retail, transport, and education. With industry case studies, clear definitions of terminology, and no background knowledge required, this text supports students in gaining a solid understanding of data analytics and its practical applications. PowerPoint slides, a test bank of questions, and an instructor's manual are also provided as online supplements. This will be a valuable text for undergraduate level courses in data analytics, data mining, business intelligence, and related areas. This book provides a holistic picture of the digital age as it emerges in the 2010s. On the background of business analysis concepts from firm to megatrends and all business sectors of the world, the digital age of information systems and digital devices are thoroughly laid out. The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter provides a summary and additional resources for further information. This IBM® Redpaper™ publication provides information about the IBM T.24 features of IBM DB2® for i Row and Column Access Control (RCAC). It offers a broad description of the function and advantages of controlling access to data in a comprehensive and transparent way. This publication helps you understand the capabilities of RCAC and provides examples of defining, creating, and implementing the row permissions and column masks in a relational database environment. This paper is intended for database engineers, data-centric application developers, and security officers who want to design and implement RCAC as a part of their data control and governance policy. A solid background in IBM i object level security, DB2 for relational database concepts, and SQL is assumed. IBM Private, Public, and Hybrid Cloud Storage Solutions Encyclopedia of Cloud Computing Innovate, Ignite, and Win through Mass Collaboration and Social Networking IBM Watson Services: Partial 8 Foundations and Industry Applications Web Experience Factory and the Cloud*

The Temenos T24 core banking application is a critical application for the banks that use it and has a primary focus on providing an appropriate level of high availability and disaster recovery. The level of availability is determined largely by the configuration of the infrastructure that supports T24. This infrastructure is built on hardware, middleware, and networking, in addition to the operational procedures and practices that are used to operate T24. Many options are available for meeting a client's high availability and disaster recovery requirements. The solution chosen by a Temenos T24 user depends on many factors. These factors include a user's detailed availability and recovery requirements; their existing datacenter standards, practices, and processes; and the available network infrastructure. Therefore, the optimum solution must be determined on a case-by-case basis for each deployment. This IBM® Redpaper™ publication serves as a guide to help IT architects and other technical staff who are designing, configuring, and building the infrastructure to support Temenos T24. It shows how IBM software can deliver high availability and disaster recovery for Temenos T24 to meet a client's requirements. This software might run on IBM Aix®, IBM WebSphere® Application Server, WebSphere MQ Server, and IBM DB2®, These IBM software components are typically used for a Temenos T24 deployment on an IBM middleware stack to ensure a highly available infrastructure for T24. The essential roadmaps for enterprise cloud adoption As cloud technologies continue to challenge the fundamental understanding of how businesses work, smart companies are moving quickly to adapt to a changing set of rules. Adopting the cloud requires a clear roadmap backed by use cases, grounded in practical real-world experience, to

show the routes to successful adoption. The Cloud Adoption Playbook helps business and technology leaders in enterprise organizations sort through the options and make the best choices for accelerating cloud adoption and digital transformation. Written by a team of IBM technical executives with a wealth of real-world client experience, this book cuts through the hype, answers your questions, and helps you tailor your cloud adoption and digital transformation journey to the needs of your organization. This book will help you: Discover how the cloud can fulfill major business needs Adopt a standardized Cloud Adoption Framework and understand the key dimensions of cloud adoption and digital transformation Learn how cloud adoption impacts culture, architecture, security, and more Understand the roles of governance, methodology, and how the cloud impacts key players in your organization. Providing a collection of winning plays, championship advice, and real-world examples of successful adoption, this playbook is your ultimate resource for making the cloud work. There has never been a better time to adopt the cloud. Cloud solutions are more numerous and accessible than ever before, and evolving technology is making the cloud more reliable, more secure, and more necessary than ever before. Don't let your organization be left behind! The Cloud Adoption Playbook gives you the essential guidance you need to make the smart choices that reduce your organizational risk and accelerate your cloud adoption and digital transformation.

The Building Cognitive Applications with IBM Watson Services series is a seven-volume collection that introduces IBM® Watson™ cognitive computing services. The series includes an overview of specific IBM Watson® services with their associated architectures and simple code examples. Each volume describes how you can use and implement these services in your applications through practical use cases. The series includes the following volumes: Volume 1 Getting Started, SG24-8387 Volume 2 Conversation, SG24-8394 Volume 3 Visual Recognition, SG24-8393 Volume 4 Natural Language Classifier, SG24-8391 Volume 5 Language Translator, SG24-8392 Volume 6 Speech to Text and Text to Speech, SG24-8388 Volume 7 Natural Language Understanding, SG24-8398 Whether you are a beginner or an experienced developer, this collection provides the information you need to start your research on Watson services. If your goal is to become more familiar with Watson in relation to your current environment, or if you are evaluating cognitive computing, this collection can serve as a powerful learning tool. This IBM Redbooks® publication, Volume 1, introduces cognitive computing, its motivating factors, history, and basic concepts. This volume describes the industry landscape for cognitive computing and introduces Watson, the cognitive computing offering from IBM. It also describes the nature of the question-answering (QA) challenge that is represented by the Jeopardy! quiz game and it provides a high-level overview of the QA system architecture (DeepQA), developed for Watson to play the game. This volume charts the evolution of the Watson Developer Cloud from the initial DeepQA implementation. This book also introduces the concept of domain adaptation and the processes that must be followed to adapt the various Watson services to specific domains.