

Cloud Computing Solution

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[A Quick Start Guide to Cloud Computing Springer Science & Business Media](#)

Master edge computing architectures, unlock industry-specific patterns, apply proven best practices, and progress from basics to end-to-end solutions Key Features Unlock scalable edge solutions by mastering proven archetypes for real-world success Learn industry-specific patterns, tailoring solutions for diverse sector needs Make strategic decisions between cloud-out and edge-in strategies with confidence Purchase of the print or Kindle book includes a free PDF eBook Book Description Enriched with insights from a hyperscaler's perspective, *Edge Computing Patterns for Solution Architects* will prepare you for seamless collaboration with communication service providers (CSPs) and device manufacturers and help you in making the pivotal choice between cloud-out and edge-in approaches. This book presents industry-specific use cases that shape tailored edge solutions, addressing non-functional requirements to unlock the potential of standard edge components. As you progress, you'll navigate the archetypes of edge solution architecture from the basics to network edge and end-to-end configurations. You'll also discover the weight of data and the power of automation for scale and immerse yourself in the edge mantra of low latency and high bandwidth, absorbing invaluable do's and don'ts from real-world experiences. Recommended practices, honed through practical insights, have also been added to guide you in mastering the dynamic realm of edge computing. By the end of this book, you'll have built a comprehensive understanding of edge concepts and terminology and be ready to traverse the evolving edge computing landscape. What you will learn Distinguish edge concepts, recognizing that definitions vary among different audiences Explore industry-specific architecture patterns that shape custom solutions Analyze three proven edge computing archetypes for real-world scalability Apply best practices judiciously, adapting patterns to meet specific requirements Evaluate data for storage or discarding based on compliance and industry norms Advance from the foundational basics to complex end-to-end edge configurations Gain practical insights for achieving low-latency, high-bandwidth edge solutions Who this book is for Ideal for VPs of IT infrastructure, enterprise architects, solution architects, and SRE professionals with a

background in cloud computing, this book is for individuals involved in crafting edge reference architectures and tailored solutions across diverse industries. It provides valuable insights and practical patterns drawn from real-world implementations in sectors such as retail, telecommunications, and manufacturing. Foundational knowledge of cloud computing is assumed to align with the advanced nature of the content covered.

Cloud Computing IBM Redbooks

Design effective Azure architecture and transform your IT business solutions Key Features Develop a resilient and robust cloud environment Deploy and manage cost-effective and highly available solutions on your public cloud Design and implement enterprise-level cloud solutions Book Description Azure provides cloud-based solutions to support your business demands. Building and running solutions on Azure will help your business maximize the return on investment and minimize the total cost of ownership. *Hands-On Cloud Solutions with Azure* focuses on addressing the architectural decisions that usually arise when you design or migrate a solution to Microsoft Azure. You will start by designing the building blocks of infrastructure solution on Azure, such as Azure compute, storage, and networking, followed by exploring the database options it offers. You will get to grips with designing scalable web and mobile solutions and understand where to host your Active Directory and Identity Solution. Moving on, you'll learn how to extend DevOps to Azure. You will also benefit from some exciting services that enable extremely smooth operations and streamlined DevOps between on-premises and cloud. The book will help you to design a secure environment for your solution, on both the Cloud and hybrid. Toward the end, you'll see how to manage and monitor cloud and hybrid solutions. By the end of this book, you will be armed with all the tools and knowledge you need to properly plan and design your solutions on Azure, whether it's for a brand new project or migration project. What you will learn Get started with Azure by understanding tenants, subs, and resource groups Decide whether to "lift and shift" or migrate apps Plan and architect solutions in Azure Build ARM templates for Azure resources Develop and deploy solutions in Azure Understand how to monitor and support your application with Azure Make your life easier with Azure best practices and tips Who this book is for If you're an IT consultant, developer, or solutions architect looking to design effective solutions for your organization, this book is for you. Some knowledge of cloud computing will assist with understanding the key concepts covered in this book.

Cloud Computing Design Patterns Packt Publishing Ltd

This book presents a range of cloud computing security challenges and promising solution paths. The first two chapters focus on practical considerations of cloud computing. In Chapter 1, Chandramouli, Iorga, and Chokani describe the evolution of cloud computing and the current state of practice, followed by the challenges of cryptographic key management in the cloud. In Chapter 2, Chen and Sion present a dollar cost model of cloud computing and explore the economic viability of cloud computing with and without security mechanisms involving cryptographic mechanisms. The next two chapters address security issues of the cloud infrastructure. In Chapter 3, Szefer and Lee describe a

hardware-enhanced security architecture that protects the confidentiality and integrity of a virtual machine's memory from an untrusted or malicious hypervisor. In Chapter 4, Tsugawa et al. discuss the security issues introduced when Software-Defined Networking (SDN) is deployed within and across clouds. Chapters 5-9 focus on the protection of data stored in the cloud. In Chapter 5, Wang et al. present two storage isolation schemes that enable cloud users with high security requirements to verify that their disk storage is isolated from some or all other users, without any cooperation from cloud service providers. In Chapter 6, De Capitani di Vimercati, Foresti, and Samarati describe emerging approaches for protecting data stored externally and for enforcing fine-grained and selective accesses on them, and illustrate how the combination of these approaches can introduce new privacy risks. In Chapter 7, Le, Kant, and Jajodia explore data access challenges in collaborative enterprise computing environments where multiple parties formulate their own authorization rules, and discuss the problems of rule consistency, enforcement, and dynamic updates. In Chapter 8, Smith et al. address key challenges to the practical realization of a system that supports query execution over remote encrypted data without exposing decryption keys or plaintext at the server. In Chapter 9, Sun et al. provide an overview of secure search techniques over encrypted data, and then elaborate on a scheme that can achieve privacy-preserving multi-keyword text search. The next three chapters focus on the secure deployment of computations to the cloud. In Chapter 10, Oktay et al. present a risk-based approach for workload partitioning in hybrid clouds that selectively outsources data and computation based on their level of sensitivity. The chapter also describes a vulnerability assessment framework for cloud computing environments. In Chapter 11, Albanese et al. present a solution for deploying a mission in the cloud while minimizing the mission's exposure to known vulnerabilities, and a cost-effective approach to harden the computational resources selected to support the mission. In Chapter 12, Kontaxis et al. describe a system that generates computational decoys to introduce uncertainty and deceive adversaries as to which data and computation is legitimate. The last section of the book addresses issues related to security monitoring and system resilience. In Chapter 13, Zhou presents a secure, provenance-based capability that captures dependencies between system states, tracks state changes over time, and that answers attribution questions about the existence, or change, of a system's state at a given time. In Chapter 14, Wu et al. present a monitoring capability for multicore architectures that runs monitoring threads concurrently with user or kernel code to constantly check for security violations. Finally, in Chapter 15, Hasan Cam describes how to manage the risk and resilience of cyber-physical systems by employing controllability and observability techniques for linear and non-linear systems.

Cloud Computing Springer

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.

AWS for Solutions Architects IBM Redbooks
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.

Aws Independently Published

This book provides an account of the latest developments in IoT and cloud computing, and their practical applications in various industrial, scientific, business, education, and government domains. The book covers the advanced research and state of the art review of the latest developments in IoT and cloud computing and how they might be employed post-COVID era. The book also identifies challenges and their solutions in this era, shaping the direction for future research and offering emerging topics to investigate further. The book serves as a reference for a broader audience such as researchers, application designers, solution architects, teachers, graduate students, enthusiasts, practitioners, IT managers, decision-makers and policymakers. The book editors are pioneers in the fields of IoT and Cloud computing. Provides an account of the latest developments in IoT and cloud computing and how it can aid in a COVID-19 Era in a variety of applications; Identifies IoT and cloud computing challenges and their solutions, shaping the direction for future research; Serves as a reference for researchers, application designers, solution architects, teachers, and graduate students.

Silver Clouds, Dark Linings Pearson Education

CLOUD COMPUTING SOLUTIONS The main purpose of this book is to include all the cloud-related technologies in a single platform, so that researchers, academicians, postgraduate students, and those in the industry can easily understand the cloud-based ecosystems. This book discusses the evolution of cloud computing through grid computing and cluster computing. It will help researchers and practitioners to understand grid and distributed computing cloud infrastructure, virtual machines, virtualization, live migration, scheduling techniques, auditing concept, security and privacy, business models, and case studies through the state-of-the-art cloud

computing countermeasures. This book covers the spectrum of cloud computing-related technologies and the wide-ranging contents will differentiate this book from others. The topics treated in the book include: The evolution of cloud computing from grid computing, cluster computing, and distributed systems; Covers cloud computing and virtualization environments; Discusses live migration, database, auditing, and applications as part of the materials related to cloud computing; Provides concepts of cloud storage, cloud strategy planning, and management, cloud security, and privacy issues; Explains complex concepts clearly and covers information for advanced users and beginners. Audience The primary audience for the book includes IT, computer science specialists, researchers, graduate students, designers, experts, and engineers who are occupied with research. Cloud Computing and SOA Convergence in Your Enterprise Elsevier

Introducing cloud computing -- Software as a service (SaaS) -- Platform as a service (PaaS) -- Infrastructure as a service (IaaS) -- Identity as a service (IDaaS) -- Data storage in the cloud -- Collaboration in the cloud -- Virtualization -- Securing the cloud -- Disaster recovery and business continuity and the cloud -- Service-oriented architecture -- Managing the cloud -- Migrating to the cloud -- Mobile cloud computing -- Governing the cloud -- Evaluating the cloud's business impact and economics -- Designing cloud-based solutions -- Coding cloud-based applications -- Application scalability -- The future of the cloud.

IBM SmartCloud: Building a Cloud Enabled Data Center Packt Publishing Ltd

Apply cloud design patterns to overcome real-world challenges by building scalable, secure, highly available, and cost-effective solutions Key Features Apply AWS Well-Architected Framework concepts to common real-world use cases Understand how to select AWS patterns and architectures that are best suited to your needs Ensure the security and stability of a solution without impacting cost or performance Book Description One of the most popular cloud platforms in the world, Amazon Web Services (AWS) offers hundreds of services with thousands of features to help you build scalable cloud solutions; however, it can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements. Whether you are an application architect, enterprise architect, developer, or operations engineer, this book will take you through AWS architectural patterns and guide you in selecting the most appropriate services for your projects. AWS for Solutions Architects is a comprehensive guide that covers the essential concepts that you need to know for designing well-architected AWS solutions that solve the challenges organizations face daily. You'll get to grips with AWS architectural principles and patterns by implementing best practices and recommended techniques for real-world use cases. The book will show you how to enhance operational efficiency, security, reliability, performance, and cost-effectiveness using real-world examples. By the end of this AWS book, you'll have gained a clear understanding of how to design AWS architectures using the most appropriate services to meet your organization's technological and business requirements. What you will learn Rationalize the

selection of AWS as the right cloud provider for your organization Choose the most appropriate service from AWS for a particular use case or project Implement change and operations management Find out the right resource type and size to balance performance and efficiency Discover how to mitigate risk and enforce security, authentication, and authorization Identify common business scenarios and select the right reference architectures for them Who this book is for This book is for application and enterprise architects, developers, and operations engineers who want to become well-versed with AWS architectural patterns, best practices, and advanced techniques to build scalable, secure, highly available, and cost-effective solutions in the cloud. Although existing AWS users will find this book most useful, it will also help potential users understand how leveraging AWS can benefit their organization.

CLOUD COMPUTING FOR DUMMIES Kogan Page Publishers

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.

Building Google Cloud Platform Solutions Packt Publishing Ltd

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.

Multi-Cloud for Architects Springer Science & Business Media

Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization. Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed.

Cloud Computing Solutions Springer Nature

This book describes cloud computing as a service that is "highly scalable" and operates in "a resilient environment". The authors emphasize architectural layers and models - but also business and security factors.

Guide to Reliable Distributed Systems Packt Publishing Ltd For cloud users and providers alike, security is an everyday concern, yet there are very few books covering cloud security as a main subject. This book will help address this information gap from an Information Technology solution and usage-centric view of cloud infrastructure security. The book highlights the fundamental technology components necessary to build and enable trusted clouds. Here also is an explanation of the security and compliance challenges organizations face as they migrate mission-critical applications to the cloud, and how trusted clouds, that have their integrity rooted in hardware, can address these challenges. This book provides: Use cases and solution reference architectures to enable infrastructure integrity and the creation of trusted pools leveraging Intel Trusted Execution Technology (TXT). Trusted geo-location management in the cloud, enabling workload and data location compliance and boundary control usages in the cloud. OpenStack-based reference architecture of tenant-controlled virtual machine and workload protection in the cloud. A reference design to enable secure hybrid clouds for a cloud bursting use case, providing infrastructure visibility and control to organizations. "A valuable guide to the next generation of cloud security and hardware based root of trust. More than an explanation of the what and how, is the explanation of why. And why you can't afford to ignore it!" —Vince Lubsey, Vice President, Product Development, Virtustream Inc. "Raghu provides a valuable reference for the new 'inside out' approach, where trust in hardware, software, and privileged users is never assumed—but instead measured, attested, and limited according to least privilege principles." —John Skinner, Vice President, HyTrust Inc. "Traditional parameter based defenses are insufficient in the cloud. Raghu's book addresses this problem head-on by highlighting unique usage models to enable trusted infrastructure in this open environment. A must read if you are exposed in cloud." —Nikhil Sharma, Sr. Director of Cloud Solutions, Office of CTO, EMC Corporation

Edge Computing Patterns for Solution Architects Calvin Caine Market_Desc: Primary Market: Business professionals, IT professionals, IT managers, those responsible for planning and implementation of cloud computing applications, IT folks bombarded with demands for cloud-computing enabled applications. Secondary Market: Programmers, network administrators, those implementing Cloud Computing applications. Special Features: · MAJOR IT INVESTMENTS -- The faltering economy boosts cloud computing - IDC said in 10/08 it expects spending on IT cloud services to reach \$42 billion by 2012, a growth of threefold. The cloud model offers a cheaper way for businesses to acquire and use IT without capital investments · PERFECT FOR DUMMIES TITLE -- There are multiple definitions for cloud computing. Judith Hurwitz et al clears up the confusion and enlighten the readers as to the meaning of cloud computing from the utility computing standpoint, help them understand why it's important, and get the reader started on implementing a solution. · PARTNERSHIP OPPORTUNITIES -- Once again, we are working with powerhouses IBM and HP on the book. A minibook is under way with HP and IBM will have a minibook they will distribute upselling the retail title. · CONNECTED AUTHORS WITH A PLATFORM--Tireless self-promoters, cloud computing and SOA experts, the authors speak on almost a daily basis at major conferences and webcasts, and are featured all over the web as experts. They are well connected with the major companies selling cloud computing solutions. About The Book: Cloud Computing For Dummies begins by debunking Cloud Computing - providing a clear definition from

the utility computing standpoint then moves into delivering practical guidance on delivering and managing cloud computing services in an effective and efficient manner presenting a proactive and pragmatic approach to implementing cloud computing in any organization. IT managers and staff will find the book most useful in helping them understand the benefits and challenges of cloud computing, how to select a service and getting it up and running. The book also addresses security concerns.

Cloud Computing: The Untold Origins of Cloud Computing (Manipulation, Configuring and Accessing the Applications Online) IGI Global

Achieve your business goals and build highly available, scalable, and secure cloud infrastructure by designing robust and cost-effective solutions as a Google Cloud Architect. Key Features Gain hands-on experience in designing and managing high-performance cloud solutions Leverage Google Cloud Platform to optimize technical and business processes using cutting-edge technologies and services Use Google Cloud Big Data, AI, and ML services to design scalable and intelligent data solutions Book Description Google has been one of the top players in the public cloud domain thanks to its agility and performance capabilities. This book will help you design, develop, and manage robust, secure, and dynamic solutions to successfully meet your business needs. You'll learn how to plan and design network, compute, storage, and big data systems that incorporate security and compliance from the ground up. The chapters will cover simple to complex use cases for devising solutions to business problems, before focusing on how to leverage Google Cloud's Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS) capabilities for designing modern no-operations platforms. Throughout this book, you'll discover how to design for scalability, resiliency, and high availability. Later, you'll find out how to use Google Cloud to design modern applications using microservices architecture, automation, and Infrastructure-as-Code (IaC) practices. The concluding chapters then demonstrate how to apply machine learning and artificial intelligence (AI) to derive insights from your data. Finally, you will discover best practices for operating and monitoring your cloud solutions, as well as performing troubleshooting and quality assurance. By the end of this Google Cloud book, you'll be able to design robust enterprise-grade solutions using Google Cloud Platform. What you will learn Get to grips with compute, storage, networking, data analytics, and pricing Discover delivery models such as IaaS, PaaS, and SaaS Explore the underlying technologies and economics of cloud computing Design for scalability, business continuity, observability, and resiliency Secure Google Cloud solutions and ensure compliance Understand operational best practices and learn how to architect a monitoring solution Gain insights into modern application design with Google Cloud Leverage big data, machine learning, and AI with Google Cloud Who this book is for This book is for cloud architects who are responsible for designing and managing cloud solutions with GCP. You'll also find the book useful if you're a system engineer or enterprise architect looking to learn how to design solutions with Google Cloud. Moreover, cloud architects who already have experience with other cloud providers and are now beginning to work with Google Cloud will benefit from the book. Although an intermediate-level understanding of cloud computing and distributed apps is required, prior experience of working in the public and hybrid cloud domain is not mandatory.

Architecting Google Cloud Solutions Apress

I've been in cloud computing since the very start, and I'm here to help you on your journey to understand the cloud. Consider me your tour guide. I'll be with you every step of the way, but not in a creepy way. This is a short book on purpose. I don't want to overwhelm you with technical detail. I go slow and easy, so you can build up an intuition about what cloud computing really is, one idea at a time. When you finish reading, you'll understand cloud

computing. When you hear someone say some new cool thing uses cloud computing, you'll understand exactly what they mean. What You'll Learn · Leverage cloud computing practices to successfully build a cost-effective cloud environment. · Select the most ideal cloud service model, and execute suitable cloud design strategies for your company. · Manage changes in the cloud transition and digital transformation process. · Implement cloud computing solutions efficiently and effectively. · Use case patterns for cloud models and types. · Best practices for adopting cloud computing. Through this book, I hope that you will see the absolute necessity of understanding Cloud Computing. This textbook is intended as a guide for an explanatory course of Cloud Computing for the Graduate and Post Graduate Students of several universities across the world.

IBM Technical Computing Clouds CreateSpace Independent Publishing Platform

Your one-stop guide to work with multiple cloud service providers Key Features A practical step-by-step guide that will teach you to architect effective Cloud computing solutions and services efficiently You will learn the key differences in both platforms and how you can interconnect them to each other Eliminate the pain-points of architecting, interconnect and managing multi-cloud services and solutions. Book Description With the passing of time and with technology evolving, organizations all around the globe, from small- to medium-sized enterprises through to companies that are fully equipped, have started migrating or adapting to cloud computing. If you are looking at adapting entirely to any cloud and its services, this book will be your go-to guide to find perfect solutions, irrespective of the size of your infrastructure. This book will teach you effective solutions for overcoming various implementation scenarios. Our book covers two major cloud platforms (AWS and Azure) and provides practical use cases. You will start by designing the building blocks for infrastructure solutions that will involve core cloud platform services, such as compute, networking, storage, and identity, through various cloud providers. You will be able to plan and design solutions across major cloud providers and streamline interconnections and identities. Finally, you will understand the differences between, and the behavior of, both platforms, and you will be able to plan interconnects and identities for single-instance management. By the end of this book, you will know everything you need in order to be able to architect a multi-cloud solution for your organization. What you will learn Get to grips with different cloud offerings according to service and availability model Choose your cloud model, depending on real-world requirements Become familiar with interconnecting and designing multi-cloud solutions according to network, identity, and application Interconnect major cloud providers and frameworks, such as Microsoft Azure/Azure Stack, and AWS, and manage hosting solutions Resolve key show stoppers in a multi-cloud environment Familiarize yourself with example architectures based on real-world projects and solutions Who this book is for If you are a Cloud Architect, Solutions architect,

system/network administrator, or a DevOps engineers aware of Cloud solutions and keen to successfully architect them to your organization then, this book is for you.

Architecting Cloud Computing Solutions John Wiley & Sons

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.

[Building Big Data and Analytics Solutions in the Cloud](#)

Packt Publishing Ltd

Essay from the year 2017 in the subject Computer Science - IT-Security, grade: 9, University of Nairobi, language: English, abstract: Customer satisfaction has been the key competitive strategy of Figura Leisure Centre. However, there is no clear information management system to help them achieve this. Doing the work manually is quite ineffective and time consuming. The organization is losing revenues because of poor management of data and communication system. There is no customer information and follow up on payments by staff is quite a challenge. Proper communication among the staff is also missing. This makes it hard for the staff to respond to customer needs promptly and in the right manner. Customer feedback is also hard to get. Data processing, storage and communication are hard because,

if done at all, it is through the conventional approach. This calls for the business to adopt cloud computing's Software as a Service system to enhance communication internally and advance interaction with external customers. SaaS is quite suitable for small business and organizations like Figura Leisure Centre. With the use of SaaS there will be change in the way the organization conducts its business. When used appropriately, SaaS will decrease use of physical infrastructure, increased implementation speed, and recommendable client experience. SaaS will also save some upfront expenses. SaaS system would help the business in compiling customer information across various channels, and on point of contact between the organization and the customer.