How Clouds Hold It Together Integrating Architecture With Cloud Deployment

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Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing - Management Association, Information Resources 2021-01-25
Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Digital Manufacturing & Automation III - Yong Hong Tan 2012-07-26
Volume is indexed by Thomson Reuters CPCI-S (WoS). Digital manufacturing and automation technology plays a more and more important role in advancing industry. These peer-reviewed papers report up-to-the-minute innovations and developments, and summarize state-of-the-art ideas for the benefit of domestic and foreign scholars and experts from areas such as mechatronics, digital manufacturing, deep-sea mining control technology and equipment automation, intelligent control and detection technology.

Software-Defined Cloud Centers - Pethuru Raj 2018-05-04
This practical text/reference provides an exhaustive guide to setting up and sustaining software-defined data centers (SDDCs). Each of the core elements and underlying technologies are explained in detail, often supported by real-world examples. The text illustrates how cloud integration, brokerage, and orchestration can ensure optimal performance and usage of data resources, and what steps are required to secure each component in a SDDC. The coverage also includes material on hybrid cloud concepts, cloud-based data analytics, cloud configuration, enterprise DevOps and code deployment tools, and cloud software engineering. Topics and features: highlights how technologies relating to cloud computing, IoT, blockchain, and AI are revolutionizing business transactions, operations, and analytics; introduces the concept

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of Cloud 2.0, in which software-defined computing, storage, and networking are applied to produce next-generation cloud centers; examines software-defined storage for storage virtualization, covering issues of cloud storage, storage tiering, and deduplication; discusses software-defined networking for network virtualization, focusing on techniques for network optimization in data centers; reviews the qualities and benefits of hybrid clouds, that bridge private and public cloud environments; investigates the security management of a software-defined data center, and proposes a framework for managing hybrid IT infrastructure components; describes the management of multi-cloud environments through automated tools, and cloud brokers that aim to simplify cloud access, use and composition; covers cloud orchestration for automating application integration, testing, infrastructure provisioning, software deployment, configuration, and delivery. This comprehensive work is an essential reference for all practitioners involved with software-defined data center technologies, hybrid clouds, cloud service management, cloud-based analytics, and cloud-based software engineering.

Personal Cybersecurity - Marvin Waschke 2017-01-12

Discover the most prevalent cyber threats against individual users of all kinds of computing devices. This book teaches you the defensive best practices and state-of-the-art tools available to you to repel each kind of threat. Personal Cybersecurity addresses the needs of individual users at work and at home. This book covers personal cybersecurity for all modes of personal computing whether on consumer-acquired or company-issued devices: desktop PCs, laptops, mobile devices, smart TVs, WiFi and Bluetooth peripherals, and IoT objects embedded with network-connected sensors. In all these modes, the frequency, intensity, and sophistication of cyberattacks that put individual users at risk are increasing in step with accelerating mutation rates of malware and cybercriminal delivery systems. Traditional anti-virus software and personal firewalls no longer suffice to guarantee personal security. Users who neglect to learn and adopt the new ways of protecting themselves in their work and private environments put themselves, their associates, and their companies at risk of inconvenience, violation, reputational damage, data corruption, data theft, system degradation, system destruction, financial harm, and criminal disaster. This book shows what actions to take to limit the harm and recover from the damage. Instead of laying down a code of "thou shalt not" rules that admit of too many exceptions and contingencies to be of much practical use, cloud expert Marvin Waschke equips you with the battlefield intelligence, strategic understanding, survival training, and proven tools you need to intelligently assess the security threats in your environment and most effectively secure yourself from attacks. Through instructive examples and scenarios, the author shows you how to adapt and apply best practices to your own particular circumstances, how to automate and routinize your personal cybersecurity, how to recognize security breaches and act swiftly to seal them, and how to recover losses and restore functionality when attacks succeed. What You'll Learn Discover how computer security works and what it can protect us from See how a typical hacker attack works Evaluate computer security threats to the individual user and corporate systems Identify the critical vulnerabilities of a computer connected to the Internet Manage your computer to reduce vulnerabilities to yourself and your employer Discover how the adoption of newer forms of biometric authentication affects you Stop your router and other online devices from being co-opted into disruptive denial of service attacks Who This Book Is For Proficient and technically knowledgeable computer users who are anxious about cybercrime and want to understand the technology behind both attack and defense but do not want to go so far as to become security experts. Some of this audience will be purely home users, but many will be executives, technical managers, developers, and members of IT departments who need to adopt personal practices for their own safety and the protection of corporate systems. Many will want to impart good cybersecurity practices to their colleagues. IT departments tasked with indoctrinating their users with good safety practices may use the book as training material.

Software Reuse in the Emerging Cloud

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Computing Era - Yang, Hongji 2012-04-30
"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"--Provided by publisher.

Official Google Cloud Certified Professional Cloud Architect Study Guide - Dan Sullivan 2019-10-07
Sybex's proven Study Guide format teaches Google Cloud Architect job skills and prepares you for this important new Cloud exam. The Google Cloud Certified Professional Cloud Architect Study Guide is the essential resource for anyone preparing for this highly sought-after, professional-level certification. Clear and accurate chapters cover 100% of exam objectives—helping you gain the knowledge and confidence to succeed on exam day. A pre-book assessment quiz helps you evaluate your skills, while chapter review questions emphasize critical points of learning. Detailed explanations of crucial topics include analyzing and defining technical and business processes, migration planning, and designing storage systems, networks, and compute resources. Written by Dan Sullivan—a well-known author and software architect specializing in analytics, machine learning, and cloud computing—this invaluable study guide includes access to the Sybex interactive online learning environment, which includes complete practice tests, electronic flash cards, a searchable glossary, and more. Providing services suitable for a wide range of applications, particularly in high-growth areas of analytics and machine learning, Google Cloud is rapidly gaining market share in the cloud computing world. Organizations are seeking certified IT professionals with the ability to deploy and operate infrastructure, services, and networks in the Google Cloud. Take your career to the next level by validating your skills and earning certification. Design and plan cloud solution architecture Manage and provision cloud infrastructure Ensure legal compliance and security standards Understand options for implementing hybrid clouds Develop solutions that meet reliability, business, and technical requirements The Google Cloud Certified Professional Cloud Architect Study Guide is a must-have for IT professionals preparing for certification to deploy and manage Google cloud services.

SCADA Security - What's broken and how to fix it - Andrew Ginter 2019-03
Modern attacks routinely breach SCADA networks that are defended to IT standards. This is unacceptable. Defense in depth has failed us. In ""SCADA Security"" Ginter describes this failure and describes an alternative. Strong SCADA security is possible, practical, and cheaper than failed, IT-centric, defense-in-depth. While nothing can be completely secure, we decide how high to set the bar for our attackers. For important SCADA systems, effective attacks should always be ruinously expensive and difficult. We can and should defend our SCADA systems so thoroughly that even our most resourceful enemies tear their hair out and curse the names of our SCADA systems' designers.

How Clouds Hold IT Together - Marvin Waschke 2015-11-05
Gain the practical knowledge you need to plan, design, deploy, and manage mixed cloud and on-premises IT management systems. Drawing on his experience as senior principal software architect at CA Technologies, Marvin Waschke lays out the nuts and bolts of the IT Infrastructure Library (ITIL)—the 5-volume bible of standard IT service management practices that is the single most important tool for aligning IT services with business needs. Many enterprise IT management applications, and the ways they are integrated, come directly from ITIL service management requirements. Types of integration include integrated reporting and dashboards, event-driven integration, device integration, and application data integration. Enterprise integration depends critically on high performance, scalability, and flexibility. Failure to integrate applications to service management requirements results in such wryly anticipated spectacles as the annual crash of the websites of Super Bowl advertisers such as Coca-Cola and Acura. Waschke weighs in on the debate between those who advocate integrating "best-of-breed" applications and those who favor a pre-integrated set of applications from a single vendor. He also rates the strengths and weaknesses of the major architectural

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patterns—central relational databases, service-oriented architecture (SOA), and enterprise data buses—for IT integration of service management applications. He examines the modifications to traditional service management that are required by virtualized systems of datacenter management and application design. Clouds present special problems for integration. How Clouds Hold IT Together details solutions for integration problems in private, community, and public clouds—especially problems with multi-tenant SaaS applications. Most enterprises are migrating to the cloud gradually rather than at one go. The transitional phase of mixed cloud and on-premises applications presents thorny problems for IT management. Waschke shows the reader how to normalize the performance and capacity measurements of concurrent traditional and cloud resources.

Service-Driven Approaches to Architecture and Enterprise Integration - Ramanathan, Raja 2013-06-30

While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

Personal Cybersecurity - Marvin Waschke 2017-04-28

Discover the most prevalent cyber threats against individual users of all kinds of computing devices. This book teaches you the defensive best practices and state-of-the-art tools available to you to repel each kind of threat. Personal Cybersecurity addresses the needs of individual users at work and at home. This book covers personal cybersecurity for all modes of personal computing whether on consumer-acquired or company-issued devices: desktop PCs, laptops, mobile devices, smart TVs, WiFi and Bluetooth peripherals, and IoT objects embedded with network-connected sensors. In all these modes, the frequency, intensity, and sophistication of cyberattacks that put individual users at risk are increasing in step with accelerating mutation rates of malware and cybercriminal delivery systems. Traditional anti-virus software and personal firewalls no longer suffice to guarantee personal security. Users who neglect to learn and adopt the new ways of protecting themselves in their work and private environments put themselves, their associates, and their companies at risk of inconvenience, violation, reputational damage, data corruption, data theft, system degradation, system destruction, financial harm, and criminal disaster. This book shows what actions to take to limit the harm and recover from the damage. Instead of laying down a code of "thou shalt not" rules that admit of too many exceptions and contingencies to be of much practical use, cloud expert Marvin Waschke equips you with the battlefield intelligence, strategic understanding, survival training, and proven tools you need to intelligently assess the security threats in your environment and most effectively secure yourself from attacks. Through instructive examples and scenarios, the author shows you how to adapt and apply best practices to your own particular circumstances, how to automate and routinize your personal cybersecurity, how to recognize security breaches and act swiftly to seal them, and how to recover losses and restore functionality when attacks succeed. What You'll Learn Discover how computer security works and what it can protect us from See how a typical hacker attack works Evaluate computer security threats to the individual user and corporate systems Identify the critical vulnerabilities of a computer connected to the Internet Manage your computer to reduce vulnerabilities to yourself and your employer Discover how the adoption of newer forms of biometric authentication affects you Stop your router and other online devices from being co-opted into disruptive denial of service attacks Who This Book Is For /divProficient and technically knowledgeable computer users who

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are anxious about cybercrime and want to understand the technology behind both attack and defense but do not want to go so far as to become security experts. Some of this audience will be purely home users, but many will be executives, technical managers, developers, and members of IT departments who need to adopt personal practices for their own safety and the protection of corporate systems. Many will want to impart good cybersecurity practices to their colleagues. IT departments tasked with indoctrinating their users with good safety practices may use the book as training material.

Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-11-01

Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

Internet of Things - Rajkumar Buyya 2016-05-11

Internet of Things: Principles and Paradigms captures the state-of-the-art research in Internet of Things, its applications, architectures, and technologies. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. The Internet of Things (IoT) paradigm promises to make any electronic devices part of the Internet environment. This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources. To help realize the full potential of IoT, the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them. These challenges include the development of scalable architecture, moving from closed systems to open systems, designing interaction protocols, autonomic management, and the privacy and ethical issues around data sensing, storage, and processing. Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust, security, and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

Big Data, Databases and "Ownership" Rights in the Cloud - Marcelo Corrales Compagnucci 2019-11-02

Two of the most important developments of this new century are the emergence of cloud computing and big data. However, the uncertainties surrounding the failure of cloud service providers to clearly assert ownership rights over data and databases during cloud computing transactions and big data services have been perceived as imposing legal risks and transaction costs. This lack of clear ownership rights is also seen as slowing down the capacity of the Internet market to thrive. Click-through agreements drafted on a take-it-or-leave-it basis govern the current state of the art, and they do not allow much room for negotiation. The novel contribution of this book proffers a new contractual model advocating the extension of the negotiation capabilities of cloud customers, thus enabling an automated and machine-readable framework, orchestrated by a cloud broker. Cloud computing and big data are constantly evolving and transforming into new paradigms where cloud brokers are predicted to

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play a vital role as innovation intermediaries adding extra value to the entire life cycle. This evolution will alleviate the legal uncertainties in society by means of embedding legal requirements in the user interface and related computer systems or its code. This book situates the theories of law and economics and behavioral law and economics in the context of cloud computing and takes database rights and ownership rights of data as prime examples to represent the problem of collecting, outsourcing, and sharing data and databases on a global scale. It does this by highlighting the legal constraints concerning ownership rights of data and databases and proposes finding a solution outside the boundaries and limitations of the law. By allowing cloud brokers to establish themselves in the market as entities coordinating and actively engaging in the negotiation of service-level agreements (SLAs), individual customers as well as small and medium-sized enterprises could efficiently and effortlessly choose a cloud provider that best suits their needs. This approach, which the author calls “plan-like architectures,” endeavors to create a more trustworthy cloud computing environment and to yield radical new results for the development of the cloud computing and big data markets.

Enterprise Application Architecture with .NET Core - Ganesan Senthilvel 2017-04-25

Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Building Modular Cloud Apps with OSGi - Paul Bakker 2013-09-09

If you’re an experienced Java developer in the enterprise, this practical, hands-on book shows you how to use OSGi to design, develop, and deploy modular cloud applications. You’ll quickly learn how to use OSGi, through concise code examples and a set of best practices derived

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from the authors' experiences with real-world projects. Through the course of this book, you'll learn to develop modern web applications with tools and techniques such as RESTful Web Services, NoSQL, provisioning, elasticity, Auto Scaling, hotfixes, and automatic failover. Code samples are available from GitHub. Work with dynamic OSGi services to create modular applications Explore the basics of OSGi bundles and modular application design Learn advanced topics, including semantic versioning, integration testing, and configuring components Understand OSGi pitfalls, anti-patterns, and features you should avoid Create a modular architecture for cloud-based web applications Discover how maintainability, extensibility, scalability, and testability are affected by modular design Get a look at various options for creating web applications with a modular approach Interact with persistent storage services, including relational databases and NoSQL Examine alternatives for deploying modular applications to the cloud

IBM Bluemix The Cloud Platform for Creating and Delivering Applications - Raffaele Stifani 2015-09-01

This IBM® RedpaperTM publication gives readers a broad understanding of IBM BluemixTM cloud application development platform capabilities. Providing a platform as a service (PaaS) environment as one of its run times, along with containers and virtual machines, Bluemix uses the Cloud Foundry project as one of its open source technologies to accelerate new application development and DevOps methods. It provides optimized and flexible workloads, enables continuous availability, and simplifies delivery and manageability of an application by providing prebuilt services and hosting capabilities. The paper reviews the Bluemix architecture, explains how it works, describes key concepts and components, and provides an overview of Bluemix security. It also covers the various Bluemix service categories and the services within each category. This information will help anyone who is interested in exploring the potential and capabilities of Bluemix and its services.

Robust Cloud Integration with Azure - Mahindra Morar 2017-03-22

Unleash the power of serverless integration with Azure About This Book Build and support highly available and scalable API Apps by learning powerful Azure-based cloud integration Deploy and deliver applications that integrate seamlessly in the cloud and quickly adapt as per your integration needs Deploy hybrid applications that work and integrate on the cloud (using Logic Apps and BizTalk Server) Who This Book Is For This book is for Microsoft Enterprise developers, DevOps, and IT professionals who would like to use Azure App Service and Microsoft Cloud Integration technologies to create cloud-based web and mobile apps. What You Will Learn Explore new models of robust cloud integration in Microsoft Azure Create your own connector and learn how to publish and manage it Build reliable, scalable, and secure business workflows using Azure Logic Apps Simplify SaaS connectivity with Azure using Logic Apps Connect your on-premises system to Azure securely Get to know more about Logic Apps and how to connect to on-premises "line-of-business" applications using Microsoft BizTalk Server In Detail Microsoft is focusing heavily on Enterprise connectivity so that developers can build scalable web and mobile apps and services in the cloud. In short, Enterprise connectivity from anywhere and to any device. These integration services are being offered through powerful Azure-based services. This book will teach you how to design and implement cloud integration using Microsoft Azure. It starts by showing you how to build, deploy, and secure the API app. Next, it introduces you to Logic Apps and helps you quickly start building your integration applications. We'll then go through the different connectors available for Logic Apps to build your automated business process workflow. Further on, you will see how to create a complex workflow in Logic Apps using Azure Function. You will then add a SaaS application to your existing cloud applications and create Queues and Topics in Service Bus on Azure using Azure Portal. Towards the end, we'll explore event hubs and IoT hubs, and you'll get to know more about how to tool and monitor the business workflow in Logic Apps. Using this book, you will be able to support your apps that connect to data anywhere—be it in the cloud or on-

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premises. Style and approach This practical hands-on tutorial shows you the full capability of App Service and other Azure-based integration services to build scalable and highly available web and mobile apps. It helps you successfully build and support your applications in the cloud or on-premises successfully. We'll debunk the popular myth that switching to cloud is risky—it's not!

Encyclopedia of Cloud Computing - San Murugesan 2016-05-09

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, management, 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 presents its summary at the beginning and backend material, references and additional resources for further information.

Getting Started with IBM WebSphere Cast Iron Cloud Integration - Carla Sadtler 2012-01-25

Cloud computing provides companies with many capabilities to meet their business needs but can also mean that a hybrid architecture is created that includes on-premise systems and the cloud. Integration is needed to bridge the gap between the on-premise existing systems and the new cloud applications, platform, and infrastructure. IBM® WebSphere® Cast Iron® meets the challenge of integrating cloud applications with on-premise systems, cloud applications-to-cloud applications, and on-premise to on-premise applications. It contains a graphical development environment that provides built-in connectivity to many cloud and on-premise applications and reusable solution templates that can be downloaded from a solution repository. The integration solutions that are created can then run on either an on-premise integration appliance or the multi-tenant WebSphere Cast Iron Live cloud service. This IBM Redbooks® publication is intended for application integrators, integration designers, and administrators evaluating or already using IBM WebSphere Cast Iron. Executives, leaders, and architects who are looking for a way to integrate cloud applications with their on-premise applications are also shown how WebSphere Cast Iron can help to resolve their integration challenges. The book helps you gain an understanding of Cast Iron and explains how to integrate cloud and on-premise applications quickly and simply. It gives a detailed introduction to the development tool and the administration interfaces and how they are used. It also discusses security, high availability, and re-usability. The book also includes three detailed scenarios covering real-world implementations of a Cast Iron Integration Solution.

Multi-Cloud Architecture and Governance - Jeroen Mulder 2020-12-11

A comprehensive guide to architecting, managing, implementing, and controlling multi-cloud environments Key FeaturesDeliver robust multi-cloud environments and improve your business productivityStay in control of the cost, governance, development, security, and continuous improvement of your multi-cloud solutionIntegrate different solutions, principles, and practices into one multi-cloud foundationBook Description Multi-cloud has emerged as one of the top cloud computing trends, with businesses wanting to reduce their reliance on only one vendor. But when organizations shift to multiple cloud services without a clear strategy, they may face certain difficulties, in terms of how to stay in control, how to keep all the different components secure, and how to execute the cross-cloud development of applications. This book combines best practices from different cloud adoption frameworks to help you find solutions to these problems. With step-by-step explanations of essential concepts and practical examples, you'll begin by planning the foundation, creating the architecture, designing the governance model,

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and implementing tools, processes, and technologies to manage multi-cloud environments. You'll then discover how to design workload environments using different cloud propositions, understand how to optimize the use of these cloud technologies, and automate and monitor the environments. As you advance, you'll delve into multi-cloud governance, defining clear demarcation models and management processes. Finally, you'll learn about managing identities in multi-cloud: who's doing what, why, when, and where By the end of this book, you'll be able to create, implement, and manage multi-cloud architectures with confidence What you will learnGet to grips with the core functions of multiple cloud platformsDeploy, automate, and secure different cloud solutionsDesign network strategy and get to grips with identity and access management for multi-cloudDesign a landing zone spanning multiple cloud platformsUse automation, monitoring, and management tools for multi-cloudUnderstand multi-cloud management with the principles of BaseOps, FinOps, SecOps, and DevOpsDefine multi-cloud security policies and use cloud security toolsTest, integrate, deploy, and release using multi-cloud CI/CD pipelinesWho this book is for This book is for architects and lead engineers involved in architecting multi-cloud environments, with a focus on getting governance right to stay in control of developments in multi-cloud. Basic knowledge of different cloud platforms (Azure, AWS, GCP, VMWare, and OpenStack) and understanding of IT governance is necessary.

Data Management at Scale - Piethein Strengholt 2020-07-29

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learnhow to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author Piethein Strengholt provides blueprints, principles, observations, best practices, and patterns to get you up to speed. Examine data management trends, including technological developments, regulatory requirements, and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security, master data management, self-service data marketplaces, and the importance of metadata

Google Cloud Certified Professional Cloud Architect Study Guide - Dan Sullivan 2022-03-22

An indispensable guide to the newest version of the Google Certified Professional Cloud Architect certification The newly revised Second Edition of the Google Cloud Certified Professional Cloud Architect Study Guide delivers a proven and effective roadmap to success on the latest Professional Cloud Architect accreditation exam from Google. You'll learn the skills you need to excel on the test and in the field, with coverage of every exam objective and competency, including focus areas of the latest exam such as Kubernetes, Anthos, and multi-cloud architectures. The book explores the design, analysis, development, operations, and migration components of the job, with intuitively organized lessons that align with the real-world job responsibilities of a Google Cloud professional and with the PCA exam topics. Architects need more than the ability to recall facts about cloud services, they need to be able to reason about design decisions. This study guide is unique in how it helps you learn to think like an architect: understand requirements, assess constraints, choose appropriate architecture patterns, and consider the operational characteristics of the systems you design. Review questions and practice exams use scenario-based questions like those on the certification exam to build the test taking skills you will need. In addition to comprehensive material on compute resources, storage systems, networks, security, legal and regulatory compliance, reliability design, technical and business processes, and more, you'll get: The chance to begin or advance your career as an in-demand Google Cloud IT professional Invaluable opportunities to develop and practice the skills

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you'll need as a Google Cloud Architect Access to the Sybex online learning center, with chapter review questions, full-length practice exams, hundreds of electronic flashcards, and a glossary of key terms The ideal resource for anyone preparing for the Professional Cloud Architect certification from Google, Google Cloud Certified Professional Cloud Architect Study Guide, 2nd Edition is also a must-read resource for aspiring and practicing cloud professionals seeking to expand or improve their technical skillset and improve their effectiveness in the field.

Practical Guide to Clinical Computing Systems - Thomas Payne 2014-11-21

Although informatics trainees and practitioners who assume operational computing roles in their organization may have reasonably advanced understanding of theoretical informatics, many are unfamiliar with the practical topics - such as downtime procedures, interface engines, user support, JCAHO compliance, and budgets - which will become the mainstay of their working lives. Practical Guide to Clinical Computing Systems 2nd edition helps prepare these individuals for the electronic age of health care delivery. It is also designed for those who migrate into clinical computing operations roles from within their health care organization. A new group of people interested in this book are those preparing for Clinical Informatics board certification in the US. The work provides particular differentiation from the popular first edition in four areas: 40% more content detailing the many practical aspects of clinical informatics. Addresses the specific needs of the Clinical Informatics board certification course – for which it is presently recommended by the ABPM Focus on new tech paradigms including cloud computing and concurrency – for this rapidly changing field. Focuses on the practical aspects of operating clinical computing systems in medical centers rather than abstruse theory. Provides deepened and broadened authorship with a global panel of contributors providing new wisdom and new perspectives - reflecting inclusion of the first edition on the clinical informatics study guide materials. Presents a practical treatment of workday but often unfamiliar issues – downtime procedures, interface engines, user support, JCAHO compliance, and budgets.

The Enterprise Cloud - James Bond 2015-05-19

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

IBM Z Integration Guide for Hybrid Cloud - Nigel Williams 2020-04-11

Today, organizations are responding to market demands and regulatory requirements faster than ever by extending their applications and data to new digital applications. This drive to deliver new functions at speed has paved the way for a huge growth in cloud-native

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applications, hosted in both public and private cloud infrastructures. Leading organizations are now exploiting the best of both worlds by combining their traditional enterprise IT with cloud. This hybrid cloud approach places new requirements on the integration architectures needed to bring these two worlds together. One of the largest providers of application logic and data services in enterprises today is IBM Z, making it a critical service provider in a hybrid cloud architecture. The primary goal of this IBM Redpaper publication is to help IT architects choose between the different application integration architectures that can be used for hybrid integration with IBM Z, including REST APIs, messaging, and event streams.

IBM Software Defined Environment - Dino Quintero 2015-08-14

This IBM® Redbooks® publication introduces the IBM Software Defined Environment (SDE) solution, which helps to optimize the entire computing infrastructure--compute, storage, and network resources--so that it can adapt to the type of work required. In today's environment, resources are assigned manually to workloads, but that happens automatically in a SDE. In an SDE, workloads are dynamically assigned to IT resources based on application characteristics, best-available resources, and service level policies so that they deliver continuous, dynamic optimization and reconfiguration to address infrastructure issues. Underlying all of this are policy-based compliance checks and updates in a centrally managed environment. Readers get a broad introduction to the new architecture. Think integration, automation, and optimization. Those are enablers of cloud delivery and analytics. SDE can accelerate business success by matching workloads and resources so that you have a responsive, adaptive environment. With the IBM Software Defined Environment, infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands. This information is intended for IBM sales representatives, IBM software architects, IBM Systems Technology Group brand specialists, distributors, resellers, and anyone who is developing or implementing SDE.

Cloud Enterprise Architecture - Pethuru Raj 2012-10-24

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Big Data and Security - Yuan Tian 2022-03-09

This book constitutes the refereed proceedings of the Third International Conference on Big Data and Security, ICBDS 2021, held in Shenzhen, China, in November 2021 The 46 revised full papers and 13 short papers were carefully reviewed and selected out of 221 submissions. The papers included in this volume are organized according to the topical sections on cybersecurity and privacy; big data; blockchain and internet of things, and artificial

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intelligence/ machine learning security.

Cloud Security: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-04-01

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

A Modern Enterprise Architecture Approach - Dr Mehmet Yildiz 2019-10-07

The revised version of this book to provide essential guidance, compelling ideas, and unique ways to Enterprise Architects so that they can successfully perform complex enterprise modernisation initiatives transforming from chaos to coherence. This is not an ordinary theory book describing Enterprise Architecture in detail. There are myriad of books on the market and in libraries discussing details of enterprise architecture. My aim here is to highlight success factors and reflect lessons learnt from the field within enterprise modernisation and transformation context. As a practising Senior Enterprise Architect, myself, I read hundreds of those books and articles to learn different views. They have been valuable to me to establish my foundations in the earlier phase of my profession. However, what is missing now is a concise guidance book showing Enterprise Architects the novel approaches, insights from the real-life experience and experimentations, and pointing out the differentiating technologies for enterprise modernisation. If only there were such a guide when I started engaging in modernisation and transformation programs. The biggest lesson learned is the business outcome of the enterprise modernisation. What genuinely matters for business is the return on investment of the enterprise architecture and its monetising capabilities. The rest is the theory because nowadays sponsoring executives, due to economic climate, have no interest, attention, or tolerance for non-profitable ventures. I am sorry for disappointing some idealistic Enterprise Architects, but with due respect, it is the reality, and we cannot change it. This book deals with reality rather than theoretical perfection. Anyone against this view on this climate must be coming from another planet. In this concise, uncluttered and easy-to-read book, I attempt to show the significant pain points and valuable considerations for enterprise modernisation using a structured approach and a simple narration especially considering my audience from non-English speaking backgrounds. The architectural rigour is still essential. We cannot compromise the rigour aiming to the quality of products and services as a target outcome. However, there must be a delicate balance among architectural rigour, business value, and speed to the market. I applied this pragmatic approach to multiple substantial transformation initiatives and complex modernisations programs. The key point is using an incrementally progressing iterative approach to every aspect of modernisation initiatives, including people, processes, tools, and technologies as a whole. Starting with a high-level view of enterprise architecture to set the context, I provided a dozen of distinct chapters to point out and elaborate on the factors which can make a real difference in dealing with complexity and producing excellent modernisation initiatives. As eminent leaders, Enterprise Architects are the critical talents who can undertake this massive mission using their people and technology skills, in addition to many critical attributes such as calm and composed approach. Let's keep in mind that as Enterprise Architects, we are architects, not firefighters! I have full confidence that this book can provide valuable insights and some 'aha' moments for talented architects like yourself to tackle this

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enormous mission of turning chaos to coherence.

Software Engineering Frameworks for the Cloud Computing Paradigm - Zaigham Mahmood 2013-04-19

This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and practitioners. The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions.

Digital Transformation in Cloud Computing - Alibaba Cloud Intelligence GTS 2022-05-31

With the rapid development of cloud computing and digital transformation, well-designed cloud-based architecture is always in urgent need. Illustrated by project cases from the Chinese technology company Alibaba, this book elaborates how to design a cloud-based application system and build them on the cloud. Cloud computing is far from being just a resource provider; it offers database, storage and container services that can help to leverage key advantages for business growth. Based on this notion, authors from the Alibaba Cloud Global Technology Services introduce new concepts and cutting-edge technology in the field, including cloud-native, high-availability and disaster tolerance design on cloud, business middle office, data middle office, and enterprise digital transformation. Resting upon Alibaba's years of practice and achievements in the field of cloud technology, the volume also elucidates the methodology and practice solutions of digital construction, including methodology, product tools, technical processes, architecture design, cloud application capacity assessment and optimization, etc. The book will appeal to researchers, students, and especially IT practitioners, professionals, and managers interested in cloud computing, digital transformation, cloud migration, business middle office, data middle office, as well as the Alibaba Cloud itself.

Cloud Computing. Actionable Architecture - Mathews George 2014-01-23

Script from the year 2011 in the subject Computer Science - Technical Computer Science, grade: 2.0, , language: English, abstract: This paper will demonstrate a pragmatic methodology, used in conjunction with UML (unified modeling language), BPMN (business process modeling notation) along with engineering principles for describing an actionable architecture for cloud computing in the real world. The fundamental paradigm of cloud computing, whether it is for private or public usage, revolves around the provisioning of services for everyone through rich resources that can be synergized through Internet-based protocols. The true definition of Cloud Computing is, according to the author, all about the practicalities of "outsourcing" all aspects of using computing resources to some form of external "agency". This means that the assumption for any cloud computing usage is the fact that the "agency" has a powerful resource base (hardware, software, infrastructure, platforms, power supply, backups, failover mechanisms as well as management skills). Therefore, all users of the cloud computing services provided by the "agency" can work in a well-defined "demand-supply" mode, with an insurmountable base of possible fault-tolerant mechanisms to support best possible user experiences. The user will have the unique experience of not being worried about where his/her work is being done because cloud computing, as defined above, will enable him/her to work in a "virtualized" environment but with the feeling of being close to the resources. However, the apparent ease available through cloud computing will raise problems associated with diverse types of risks. Hence, it is imperative to define new architectural blueprints as well as the associated business

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processes around them so as to provide measurable metrics that will allay the fears of any user. The architectural blueprint is not just meant to be a lot of diagrams and documents but they are to be modeled as actionable artifacts. These actionable artifacts will allow for operational excellence that covers all types of functional as well as non-functional requirements that any user expects. The MDA (model driven architecture) approach, coupled with BPM (business process modeling) and engineering principles, as posited in this paper, will allow for management of distributed communication, scheduling, security enhancements and rights (as well as many other aspects) that will make the user experience enjoyable and successful.

SQL Server 2012 Integration Services Design Patterns - Andy Leonard 2012-10-23

SQL Server 2012 Integration Services Design Patterns is a book of recipes for SQL Server Integration Services (SSIS). Design patterns in the book show how to solve common problems encountered when developing data integration solutions. Because you do not have to build the code from scratch each time, using design patterns improves your efficiency as an SSIS developer. In SSIS Design Patterns, we take you through several of these snippets in detail, providing the technical details of the resolution. SQL Server 2012 Integration Services Design Patterns does not focus on the problems to be solved; instead, the book delves into why particular problems should be solved in certain ways. You'll learn more about SSIS as a result, and you'll learn by practical example. Where appropriate, SQL Server 2012 Integration Services Design Patterns provides examples of alternative patterns and discusses when and where they should be used. Highlights of the book include sections on ETL Instrumentation, SSIS Frameworks, and Dependency Services. Takes you through solutions to several common data integration challenges Demonstrates new features in SQL Server 2012 Integration Services Teaches SSIS using practical examples

Practical Oracle Cloud Infrastructure - Michał Tomasz Jakóbczyk 2020-01-31

Use this fast-paced and comprehensive guide to build cloud-based solutions on Oracle Cloud Infrastructure. You will understand cloud infrastructure, and learn how to launch new applications and move existing applications to Oracle Cloud. Emerging trends in software architecture are covered such as autonomous platforms, infrastructure as code, containerized applications, cloud-based container orchestration with managed Kubernetes, and running serverless workloads using open-source tools. Practical examples are provided. This book teaches you how to self-provision the cloud resources you require to run and scale your custom cloud-based applications using a convenient web console and programmable APIs, and you will learn how to manage your infrastructure as code with Terraform. You will be able to plan, design, implement, deploy, run, and monitor your production-grade and fault-tolerant cloud software solutions in Oracle's data centers across the world, paying only for the resources you actually use. Oracle Cloud Infrastructure is part of Oracle's new generation cloud that delivers a complete and well-integrated set of Infrastructure as a Service (IaaS) capabilities (compute, storage, networking), edge services (DNS, web application firewall), and Platform as a Service (PaaS) capabilities (such as Oracle Autonomous Database which supports both transactional and analytical workloads, the certified and fully managed Oracle Kubernetes Engine, and a serverless platform based on an open-source Fn Project). What You Will LearnBuild software solutions on Oracle CloudAutomate cloud infrastructure with CLI and TerraformFollow best practices for architecting on Oracle CloudEmploy Oracle Autonomous Database to obtain valuable data insightsRun containerized applications on Oracle’s Container Engine for KubernetesUnderstand the emerging Cloud Native ecosystem Who This Book Is For Cloud architects, developers, DevOps engineers, and technology students and others who want to learn how to build cloud-based systems on Oracle Cloud Infrastructure (OCI) leveraging a broad range of OCI Infrastructure as a Service (IAAS) capabilities, Oracle Autonomous Database, and Oracle's Container Engine for Kubernetes. Readers should have a working knowledge of Linux, exposure to programming, and a basic understanding of networking concepts. All exercises in the book can be done

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at no cost with a 30-day Oracle Cloud trial.

Opportunities from the Integration of Simulation Science and Data Science - National Academies of Sciences, Engineering, and Medicine 2018-07-31

Convergence has been a key topic of discussion about the future of cyberinfrastructure for science and engineering research. Convergence refers both to the combined use of simulation and data-centric techniques in science and engineering research and the possibilities for a single type of cyberinfrastructure to support both techniques. The National Academies of Science, Engineering, and Medicine convened a Workshop on Converging Simulation and Data-Driven Science on May 10, 2018, in Washington, D.C. The workshop featured speakers from universities, national laboratories, technology companies, and federal agencies who addressed the potential benefits and limitations of convergence as they relate to scientific needs, technological capabilities, funding structures, and system design requirements. This publication summarizes the presentations and discussions from the workshop.

How Clouds Hold IT Together - Marvin Waschke 2015-11-13

Gain the practical knowledge you need to plan, design, deploy, and manage mixed cloud and on-premises IT management systems. Drawing on his experience as senior principal software architect at CA Technologies, Marvin Waschke lays out the nuts and bolts of the IT Infrastructure Library (ITIL)—the 5-volume bible of standard IT service management practices that is the single most important tool for aligning IT services with business needs. Many enterprise IT management applications, and the ways they are integrated, come directly from ITIL service management requirements. Types of integration include integrated reporting and dashboards, event-driven integration, device integration, and application data integration. Enterprise integration depends critically on high performance, scalability, and flexibility. Failure to integrate applications to service management requirements results in such wryly anticipated spectacles as the annual crash of the websites of Super Bowl advertisers such as Coca-Cola and Acura. Waschke weighs in on the debate between those who advocate integrating "best-of-breed" applications and those who favor a pre-integrated set of applications from a single vendor. He also rates the strengths and weaknesses of the major architectural patterns—central relational databases, service-oriented architecture (SOA), and enterprise data buses—for IT integration of service management applications. He examines the modifications to traditional service management that are required by virtualized systems of datacenter management and application design. Clouds present special problems for integration. How Clouds Hold IT Together details solutions for integration problems in private, community, and public clouds—especially problems with multi-tenant SaaS applications. Most enterprises are migrating to the cloud gradually rather than at one go. The transitional phase of mixed cloud and on-premises applications presents thorny problems for IT management. Waschke shows the reader how to normalize the performance and capacity measurements of concurrent traditional and cloud resources.

Architecting Solutions with SAP Business Technology Platform - Serdar Simsekler 2022-10-28

A practical handbook packed with expert advice on architectural considerations for designing solutions using SAP BTP to drive digital innovation Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Guide your customers with proven architectural strategies and considerations on SAP BTP Tackle challenges in building process and data integration across complex and hybrid landscapes Discover SAP BTP services, including visualizations, practical business scenarios, and more Book Description SAP BTP is the foundation of SAP's intelligent and sustainable enterprise vision for its customers. It's efficient, agile, and an enabler of innovation. It's technically robust, yet its superpower is its business centricity. If you're involved in building IT and business strategies, it's essential to familiarize yourself with SAP BTP to see the big picture for digitalization with SAP solutions. Similarly, if you have design responsibilities for enterprise solutions, learning SAP BTP is crucial to produce effective and complete architecture designs. This book teaches you about SAP BTP in five parts. First, you'll see how SAP BTP is

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positioned in the intelligent enterprise. In the second part, you'll learn the foundational elements of SAP BTP and find out how it operates. The next part covers integration architecture guidelines, integration strategy considerations, and integration styles with SAP's integration technologies. Later, you'll learn how to use application development capabilities to extend enterprise solutions for innovation and agility. This part also includes digital experience and process automation capabilities. The last part covers how SAP BTP can facilitate data-to-value use cases to produce actionable business insights. By the end of this SAP book, you'll be able to architect solutions using SAP BTP to deliver high business value. What you will learn Explore value propositions and business processes enabled by SAP's Intelligent and Sustainable Enterprise Understand SAP BTP's foundational elements, such as commercial and account models Discover services that can be part of solution designs to fulfill non-functional requirements Get to grips with integration and extensibility services for building robust solutions Understand what SAP BTP offers for digital experience and process automation Explore data-to-value services that can help manage data and build analytics use cases Who this book is for This SAP guide is for technical architects, solutions architects, and enterprise architects working with SAP solutions to drive digital transformation and innovation with SAP BTP. Some IT background and an understanding of basic cloud concepts is assumed. Working knowledge of the SAP ecosystem will also be beneficial.

Salesforce B2C Solution Architect's Handbook - Mike King 2021-11-19

The ultimate handbook for new and seasoned Salesforce B2C Solution Architects who want to design seamless B2C solutions across the Salesforce Customer 360 ecosystem – including B2C Commerce, Service Cloud, and Marketing Cloud Key FeaturesGive your customers a frictionless experience by creating a unified view of all their interactionsGet your architectural design right the first time and avoid costly reworksPrepare for the B2C Solution Architect exam and Salesforce certification with practical scenarios following Salesforce best practicesBook Description There's a huge demand on the market for Salesforce professionals who can create a single view of the customer across the Salesforce Customer 360 platform and leverage data into actionable insights. With Salesforce B2C Solution Architect's Handbook, you'll gain a deeper understanding of the integration options and products that help you deliver value for organizations. While this book will help you prepare for the B2C Solution Architect exam, its true value lies in setting you up for success afterwards. The first few chapters will help you develop a solid understanding of the capabilities of each component in the Customer 360 ecosystem, their data models, and governance. As you progress, you'll explore the role of a B2C solution architect in planning critical requirements and implementation sequences to avoid costly reworks and unnecessary delays. You'll learn about the available options for integrating products with the Salesforce ecosystem and demonstrate best practices for data modeling across Salesforce products and beyond. Once you've mastered the core knowledge, you'll also learn about tools, techniques, and certification scenarios in preparation for the B2C Solution Architect exam. By the end of this book, you'll have the skills to design scalable, secure, and future-proof solutions supporting critical business demands. What you will learnExplore key Customer 360 products and their integration optionsChoose the optimum integration architecture to unify data and experiencesArchitect a single view of the customer to support service, marketing, and commercePlan for critical requirements, design decisions, and implementation sequences to avoid sub-optimal solutionsIntegrate Customer 360 solutions into a single-source-of-truth solution such as a master data modelSupport business needs that require functionality from more than one component by orchestrating data and user flowsWho this book is for This book is for professionals in high-level job roles that heavily rely on Salesforce proficiency. It's primarily written for B2C commerce architects, application architects, integration architects, as well as system architects, enterprise architects, Salesforce architects, and CTO teams looking to benefit from a deeper understanding of this platform. Before you get started, you'll need a

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solid understanding of data integration, APIs, and connected systems, along with knowledge of the fundamentals of business-to-consumer (B2C) customer experiences.

Cloud Computing Solutions - Souvik Pal 2022-05-11

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.

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