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Intelligent and Cloud Computing

Oct 20 2019 This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and

services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for

cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

[Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services](#) Jun 20 2022 The event-centric hybrid cloud integration revolves around applications running based on events or messages. The new event-centric approach to hybrid cloud aims to simplify the task of managing these

messages while increasing the overall reliability of the system. Event-centric applications work well in the cloud due to the varying intensity and frequency of events. These fluctuations fit well into a cloud infrastructure that can dynamically scale to fit those needs. An event-centric approach cuts down on communication overhead for an application, thus helping to speed up the development process. IBM® Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix® that allows businesses to create hybrid clouds by connecting their Bluemix

environment to on-premises systems at the application programming interface (API), data, or event level. In November 2015, the IBM International Technical Support Organization (ITSO) IBM Redbooks® team published a Redbooks publication that covers hybrid cloud scenarios with Bluemix for API and data integrations, Hybrid Cloud Data and API Integration: Integrate Your Enterprise and Cloud with Bluemix Services, SG24-8277, and can be found at the following website: <http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg248277.html>

?Open Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Services, SG24-8281 is a companion book to SG24-8277 and focuses on event-centric hybrid cloud integrations with Bluemix. [Cloud Native Java](#) Feb 04 2021 What separates the traditional enterprise from the likes of Amazon, Netflix, and Etsy? Those companies have refined the art of cloud native development to maintain their competitive edge and stay well ahead of the competition. This practical guide shows Java/JVM developers how to build better

software, faster, using Spring Boot, Spring Cloud, and Cloud Foundry. Many organizations have already waded into cloud computing, test-driven development, microservices, and continuous integration and delivery. Authors Josh Long and Kenny Bastani fully immerse you in the tools and methodologies that will help you transform your legacy application into one that is genuinely cloud native. In four sections, this book takes you through: The Basics: learn the motivations behind cloud native thinking; configure and test a Spring Boot application; and move your

legacy application to the cloud Web Services: build HTTP and RESTful services with Spring; route requests in your distributed system; and build edge services closer to the data Data Integration: manage your data with Spring Data, and integrate distributed services with Spring's support for event-driven, messaging-centric architectures Production: make your system observable; use service brokers to connect stateful services; and understand the big ideas behind continuous delivery *SAP Ariba* Jul 29 2020 Originally published under the title: *SAP Ariba* and

SAP Fieldglass
Integrating SAP Ariba with SAP S/4HANA Feb 28 2023 "Ready to get the most out of SAP Ariba? Streamline your daily operations by integrating your sourcing and procurement data with your larger SAP system through the SAP Ariba Cloud Integration Gateway. This all-in-one resource walks you through each step of the integration, from add-on installation and configuration to integration of transactional data from Ariba Network and the SAP Ariba applications. This is your one-stop shop for connecting SAP Ariba with SAP S/4HANA and SAP ERP!"--
[Research Anthology](#)

on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing

Jul 09 2021

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. Handbook of Research on End-to-End Cloud Computing Architecture Design
Nov 13 2021 Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency. The

Handbook of Research on End-to-End Cloud Computing Architecture Design provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers.

Vehicular Cloud Computing for

Traffic Management and Systems Dec 22 2019 Road accidents caused by impaired and distracted driving as well as traffic congestion are on the rise, with the numbers increasing dramatically every day. Intelligent transportation systems (ITS) aim to improve the efficiency and safety of traveling by consolidating vehicle operations, managing vehicle traffic, and notifying drivers with alerts and safety messages in real time. Vehicular Cloud Computing for Traffic Management and Systems provides innovative research on the rapidly advancing applications of

vehicle-to-vehicle and vehicle-to-infrastructure communication. It also covers the need to fully utilize vehicular ad-hoc network (VANET) resources to provide updated and dynamic information about the conditions of road traffic so that the number of road accidents can be minimized. Featuring research on topics such as identity management, computational architecture, and resource management, this book is ideally designed for urban planners, researchers, policy makers, graduate-level students, transportation engineers, and technology

developers seeking current research on vehicle computational design, architecture, security, and privacy.

Internet of Things - ICIOT 2018 Aug 10 2021 This book constitutes the proceedings of the International Conference on Internet of Things, ICIOT 2018, held in Seattle, WA, USA, in June 2018. The 13 full papers and 1 short paper presented in this volume was carefully reviewed and selected for inclusion in this book. The contributions are organized in topical sections named: Research Track - Architecture; Research Track - Smart IoT;

Application and Industry Track; and Short Paper Track. They deal with research and application innovations in the internet of things services.

Enterprise Integration Patterns May 27 2020

Implementing Oracle Integration Cloud Service Dec 14 2021 Understand everything you need to know about Oracle's Integration Cloud Service and how to utilize it optimally for your business About This Book The only guide to Integration Cloud Service in the market Focused on practical action to deliver business value A professional's guide to an expensive

product, providing comprehensive training, and showing how to extract real business value from the product Who This Book Is For This book is ideal for any IT professional working with ICS, any Oracle application or cloud solution developer or analyst who wants to work with ICS to deliver business value. What You Will Learn Use ICS to integrate different systems together without needing to be a developer Gain understanding of what a number of technologies and standards provide - without needing to understand the fine details of those standards and technologies

Understand the use of connectors that Oracle provide from technology based connections such as file and database connections to SaaS solutions ranging from Salesforce to Twitter Enrich data and extend SaaS integration to route to different instances Utilize a number of tools to help develop and check that your integrations work before connecting to live systems Introduce and explain integration concepts so that the integrations created are maintainable and sustainable for the longer term Provide details on how to keep up to date with the features that Oracle and partners provide in the future Get

special connections developed to work with ICS In Detail Businesses are built on data, and applications that access that data. In modern businesses the same cloud-based data stores and applications might be accessed by hundreds of different applications from thousands of different devices via APIs. To make this happen, APIs must be wired together i.e. integrated. Oracle Integration Cloud Service provides a complete method for integrating enterprise applications in the cloud. Integration Cloud Service (ICS) provides a cloud hosted means to integrate systems together using a

graphical means to define and represent integrations. This book will be a comprehensive, hands-on guide to building successful, high-availability integrations on ICS. This book sets out to demonstrate how ICS can be used to effectively implement integrations that work both in the cloud and on premise. It starts with a fast, practical introduction to what ICS can do for your business and then shows how ICS allows you to develop integrations not only quickly but in a way that means they are maintainable and extensible. Gradually it moves

into more advanced integrations, showing how to achieve sophisticated results with ICS and work with external applications. Finally the book shows you how to monitor cloud apps and go beyond ICS to build even more powerful integrated applications. By the end of the book, you will the knowledge on how to use ICS to solve your own integration needs and harness the technologies in a maintainable and sustainable manner. Style and approach This book will take a pragmatic approach and will be a business-focused guide to delivering business value with

ICS.

Architecting Solutions with SAP Business Technology Platform

Nov 25

2022 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 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.

Is Your Company Ready for Cloud?

Jun 27 2020

Practical business cases and techniques to help you understand when cloud investments make sense and when they don't. With decision models that are anchored with practical experiences and lessons to guide your decision making.

Broker Software and Cloud Services with IBM Cloud Brokerage

Mar 25 2020 Many enterprises are adopting hybrid cloud to accelerate innovation and to create new business models and revenue streams. They are

modernizing their existing IT environment and taking advantage of newer, cost-efficient consumption models. However, as they adopt a hybrid cloud, they become increasingly aware of their reliance on multiple providers, and they struggle to maintain consistent management across the cloud and traditional IT platforms. At the same time, line of business (LOB) executives and users are aggressively pursuing cloud computing solutions (from a variety of suppliers), resulting in inefficiencies, risk to the business, and loss of insight across the organization,

potentially affecting business results.

Also, these renegade cloud environments introduce financial and security risks and additional complexity into the business. IBM® Cloud Brokerage (formally known as IBM cloudMatrix) is a cloud brokerage software as a service (SaaS) that enables your business to plan, buy, and manage cloud services using a single dashboard. This solution provides your business with the ability to make better informed decisions when moving to a hybrid cloud environment. With it you can plan, provision, and manage IT resources across multiple cloud and

traditional IT models. Cloud Brokerage gives you greater visibility and control of your overall IT environment, enabling you and your IT team to effectively manage costs and compliance. This IBM Redguide™ publication introduces Cloud Brokerage and highlights the business value of the solution. It provides a high-level architecture, identifies key components of the architecture, and discusses the hybrid cloud implementation framework, which includes other IBM product offerings. The guide describes example scenarios that use Cloud

Brokerage to resolve common business problems. [IBM Bluemix The Cloud Platform for Creating and Delivering Applications](#) Jan 15 2022 This IBM® Redpaper™ publication gives readers a broad understanding of IBM Bluemix™ 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.

Cloud Security Guidelines for IBM Power Systems May 07 2021 This IBM® Redbooks® publication is a comprehensive guide that covers cloud security considerations for IBM Power Systems™. The first objectives of this book are to examine how Power Systems can fit into the current and developing cloud computing landscape and to outline the proven Cloud Computing Reference Architecture (CCRA) that IBM employs in building private and hybrid cloud environments. The book then looks more closely at the underlying technology and

hones in on the security aspects for the following subsystems: IBM Hardware Management Console IBM PowerVM IBM PowerKVM IBM PowerVC IBM Cloud Manager with OpenStack IBM Bluemix This publication is for professionals who are involved in security design with regard to planning and deploying cloud infrastructures using IBM Power Systems. *Handbook of Research on Cloud and Fog Computing Infrastructures for Data Science* Apr 25 2020 Fog computing is quickly increasing its applications and uses to the next level. As it continues to grow,

different types of virtualization technologies can thrust this branch of computing further into mainstream use. The Handbook of Research on Cloud and Fog Computing Infrastructures for Data Science is a key reference volume on the latest research on the role of next-generation systems and devices that are capable of self-learning and how those devices will impact society. Featuring wide-ranging coverage across a variety of relevant views and themes such as cognitive analytics, data mining algorithms, and the internet of things, this publication is ideally designed for programmers, IT

professionals, students, researchers, and engineers looking for innovative research on software-defined cloud infrastructures and domain-specific analytics.

Accelerating Modernization with Agile Integration Dec 02 2020 The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in

building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their

integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target

audiences for this book are cloud integration architects, IT specialists, and application developers.

Managing PeopleSoft on the Oracle Cloud

Feb 16 2022 Transition from hosting your PeopleSoft applications in a traditional, on-premises data center to hosting those same applications in the Oracle Cloud infrastructure. This functional and technical book helps you install and support PeopleSoft Cloud Manager and makes the case for moving applications to the Oracle Cloud technology stack. You will learn about the use and cost of PeopleSoft

instances in the cloud and how to configure your PeopleSoft environments to take advantage of the Oracle Cloud platform. Managing PeopleSoft on the Oracle Cloud is a resource for the functional analyst or IT manager tasked with moving PeopleSoft to the Oracle Cloud, as well as for the PeopleSoft system administrator or developer tasked with keeping a PeopleSoft installation running smoothly. Multiple cloud use cases illustrate PeopleSoft system configuration best practices, spell out specific requirements for running PeopleSoft Cloud Manager on the Oracle Cloud,

and outline tips and tricks for running PeopleSoft instances in the cloud. What You'll Learn Install and configure PeopleSoft Cloud Manager Subscribe to maintenance releases and updates Create new topologies and build new environment templates Instantiate and manage PeopleSoft instances using Cloud Manager Transition PeopleSoft from on site to in the cloud Who This Book Is For Technical PeopleSoft administrators looking for best practices, tips, and tricks for moving PeopleSoft to the Oracle Cloud, as well as for IT managers building

a case for such a move. The book is an excellent choice for both functional and technical teams who are just starting out on their PeopleSoft cloud journey.

SAP Ariba Customizing & Application Guide * with Best Practices Solution for - Cloud Integration Gateway (CIG) - SAP Ariba Supplier Lifecycle and Performance (SLP) - MDG Business Partner (BP) MDG - S** Jan 27 2023

SAP Ariba Configuration , Customizing , Implementation & Application Guide with Best Practices Solution Dec 26 2022
Robust Cloud Integration with

Azure Aug 22 2022
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-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! [Hybrid Cloud Data and API Integration: Integrate Your Enterprise and Cloud with Bluemix Services](#) Sep 23 2022 IBM® Hybrid Integration Services is a set of hybrid cloud capabilities in IBM

Bluemix™ that allows businesses to innovate rapidly while, at the same time, providing IT control and visibility. It allows customers to quickly and easily build and operate systems that mix data and application programming interfaces (APIs) from a wide variety of sources, whether they reside on-premises or in the cloud. In many cases, you want to expose your IT assets from your private cloud as APIs and at the same time have best overall manageability and control of who uses your assets and how. Bluemix provides a set of services such as Secure Gateway,

API Management, Connect and Compose, DataWorks, and API Catalog, which enable Hybrid Cloud Integration capabilities. This IBM Redbooks® publication provides preferred practices around developing cloud solutions using these Hybrid Integration Services that help you maintain data consistency, manageability, and security for critical transactions. *Cognitive Hyperconnected Digital Transformation* Mar 05 2021 Cognitive Hyperconnected Digital Transformation provides an overview of the current Internet of Things (IoT)

landscape, ranging from research, innovation and development priorities to enabling technologies in a global context. It is intended as a standalone book in a series that covers the Internet of Things activities of the IERC-Internet of Things European Research Cluster, including both research and technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI) and the IoT European Large-Scale Pilots Programme, presenting global views and state-of-

the-art results regarding the challenges facing IoT research, innovation, development and deployment in the next years. Hyperconnected environments integrating industrial/business/consumer IoT technologies and applications require new IoT open systems architectures integrated with network architecture (a knowledge-centric network for IoT), IoT system design and open, horizontal and interoperable platforms managing things that are digital, automated and connected and that function in real-time with remote access and

control based on Internet-enabled tools. The IoT is bridging the physical world with the virtual world by combining augmented reality (AR), virtual reality (VR), machine learning and artificial intelligence (AI) to support the physical-digital integrations in the Internet of mobile things based on sensors/actuators, communication, analytics technologies, cyber-physical systems, software, cognitive systems and IoT platforms with multiple functionalities. These IoT systems have the potential to understand, learn, predict, adapt and operate autonomously. They

can change future behaviour, while the combination of extensive parallel processing power, advanced algorithms and data sets feed the cognitive algorithms that allow the IoT systems to develop new services and propose new solutions. IoT technologies are moving into the industrial space and enhancing traditional industrial platforms with solutions that break free of device-, operating system- and protocol-dependency. Secure edge computing solutions replace local networks, web services replace software, and devices with networked

programmable logic controllers (NPLCs) based on Internet protocols replace devices that use proprietary protocols. Information captured by edge devices on the factory floor is secure and accessible from any location in real time, opening the communication gateway both vertically (connecting machines across the factory and enabling the instant availability of data to stakeholders within operational silos) and horizontally (with one framework for the entire supply chain, across departments, business units, global factory locations and other

markets). End-to-end security and privacy solutions in IoT space require agile, context-aware and scalable components with mechanisms that are both fluid and adaptive. The convergence of IT (information technology) and OT (operational technology) makes security and privacy by default a new important element where security is addressed at the architecture level, across applications and domains, using multi-layered distributed security measures. Blockchain is transforming industry operating models by adding trust to untrusted environments, providing

distributed security mechanisms and transparent access to the information in the chain. Digital technology platforms are evolving, with IoT platforms integrating complex information systems, customer experience, analytics and intelligence to enable new capabilities and business models for digital business. *AWS Certified Cloud Practitioner Exam Guide* Jan 23 2020 This book is a comprehensive exam guide to help prepare for the AWS Cloud Certified Practitioner exam. The book has extensive diagrams to help understand topics much easier way. The book is

divided into different sections to logically group related chapters in one section. It has the following sections: Cloud Computing (Cloud Computing Introduction, Cloud Computing Service Categories, Cloud Deployment Models, Virtualization,) AWS Fundamentals (What is AWS, AWS Account, AWS Free Tier, AWS Cost & Billing Management, AWS Global Cloud Infrastructure (part I)), IAM, EC2) AWS Advanced (EC2 Advanced, ELB, Advanced S3, Route 53, AWS Global Cloud Infrastructure (part II), Advanced Storage on AWS, AWS Monitoring, Audit, and

Performance), AWS RDS and Databases (AWS RDS and Cache, AWS Databases) Serverless (Serverless Computing, AWS Integration, and Messaging) Container & CI/CD (Container, AWS CI/CD services) Data & Analytics (Data & Analytics) Machine Learning (AWS ML/AI Services) Security (AWS Security & Encryption, AWS Shared Responsibility Model, How to get Support on AWS, Advanced Identity) Networking (AWS Networking) Solutions Architecture (Cloud Architecture Key Design Principles, AWS Well-Architected Framework)

Practice Tests Includes AWS services/features such as IAM, S3, EC2, EC2 purchasing options, EC2 placement groups, Load Balancers, Auto Scaling, S3 Glacier, S3 Storage classes, Route 53 Routing policies, CloudFront, Global Accelerator, EFS, EBS, Instance Store, AWS Snow Family, AWS Storage Gateway, AWS Transfer Family, Amazon CloudWatch, EventBridge, CloudWatch Insights, AWS CloudTrail, AWS Config, Amazon RDS, Amazon Aurora, Amazon ElastiCache, Amazon DocumentDB, Amazon Keyspaces, Amazon Quantum Ledger Database,

Amazon
Timestream,
Amazon Managed
Blockchain, AWS
Lambda, Amazon
DynamoDB,
Amazon API
Gateway, SQS,
SNS, SES, Amazon
Kinesis, Amazon
Kinesis Firehose,
Amazon Kinesis
Data Analytics,
Amazon Kinesis
Data Streams,
Amazon Kinesis
ECS, Amazon
Kinesis ECR,
Amazon EKS, AWS
CloudFormation,
AWS Elastic
Beanstalk, AWS
CodeBuild, AWS
OpsWorks, AWS
CodeGuru, AWS
CodeCommit,
Amazon Athena,
Amazon Redshift,
Amazon EMR,
Amazon
QuickSight, AWS
Glue, AWS Lake
Formation, Amazon
MSK, Amazon

Rekognition,
Amazon Transcribe,
Amazon Polly,
Amazon Translate,
Amazon Lex,
Amazon Connect,
Amazon
Comprehend,
Amazon
Comprehend
Medical, Amazon
SageMaker,
Amazon Forecast,
Amazon Kendra,
Amazon
Personalize,
Amazon Textract,
Amazon Fraud
Detector, Amazon
Sumerian, AWS
WAF, AWS Shield
Standard, AWS
Shield Advanced,
AWS Firewall
Manager, AWS
GuardDuty, Amazon
Inspector, Amazon
Macie, Amazon
Detective, SSM
Session Manager,
AWS Systems
Manager, S3
Replication &
Encryption, AWS

Organization, AWS
Control Tower,
AWS SSO, Amazon
Cognito, AWS VPC,
NAT Gateway, VPC
Endpoints, VPC
Peering, AWS
Transit Gateway,
AWS Site-to-Site
VPC, Database
Management
Service (DMS), and
many others. In the
last section
(Practice Tests),
there are five
practice test sets
with answers
containing 65
exam-like
questions. These
questions will help
you apply your
learning to better
prepare for the
exam.

Industrial Cloud- Based Cyber- Physical Systems

Aug 30 2020 This
book presents
cutting-edge
emerging
technologies and

approaches in the areas of service-oriented architectures, intelligent devices and cloud-based cyber-physical systems. It provides a clear view on their applicability to the management and automation of manufacturing and process industries. It offers a holistic view of future industrial cyber-physical systems and their industrial usage and also depicts technologies and architectures as well as a migration approach and engineering tools based on these. By providing a careful balance between the theory and the practical aspects, this book has been authored by several experts from

academia and industry, thereby offering a valuable understanding of the vision, the domain, the processes and the results of the research. It has several illustrations and tables to clearly exemplify the concepts and results examined in the text and these are supported by four real-life case-studies. We are witnessing rapid advances in the industrial automation, mainly driven by business needs towards agility and supported by new disruptive advances both on the software and hardware side, as well as the cross-fertilization of concepts and the amalgamation of

information and communication technology-driven approaches in traditional industrial automation and control systems. This book is intended for technology managers, application designers, solution developers, engineers working in industry, as well as researchers, undergraduate and graduate students of industrial automation, industrial informatics and production engineering.

Hybrid Cloud Integration and Monitoring with IBM WebSphere Cast Iron Oct 24 2022 Cloud computing is fast emerging as a new

consumption and delivery model for IT solutions. Two distinct cloud patterns have evolved. Private clouds are custom cloud applications that are on premise to companies. Public clouds are owned and managed by a service provider and are delivered on a pay-per-use basis. Although the debate between the use of private versus public cloud continues, the industry is moving ever faster toward a hybrid solution. Hybrid clouds address the integration of traditional IT environments with one or more clouds, private and public. IBM® WebSphere® Cast Iron® along with

the IBM Tivoli® Service Management Extensions for Hybrid Cloud supports the integration of private and public clouds. The Service Management Extensions for Hybrid Cloud supports the following scenarios: Provisioning hybrid cloud resources Monitoring hybrid cloud resources Governing and managing workloads that use hybrid cloud resources Provisioning users from LDAP to IBM LotusLive™ This IBM Redbooks® publication is intended for application integrators, integration designers, and administrators

evaluating or using IBM WebSphere Cast Iron. In addition, executives, business leaders, and architects who are looking for a way to integrate cloud applications with their on-premise applications are shown how WebSphere Cast Iron can help to resolve their integration challenges. The book helps you gain an understanding of hybrid cloud use cases, and explains how to integrate cloud and on-premise applications quickly and simply. *First Steps in SAP S/4HANA* May 19 2022 Are you working with SAP software for the first time, or are

you switching from SAP ERP and are confronted with SAP S/4HANA for the first time? Then this quick start guide with its concise overview of the functional scope and a clear introduction to the new SAP Fiori user interface is right for you. Clarify the terms ERP, HANA and S/4HANA, as well as the two licensing options for S/4HANA, on-premise and cloud. You will learn about the essential integrated business processes and how they are mapped in SAP S/4HANA using the Fiori apps. To do this, the authors take you through the modules related to logistics, such as materials management, sales

and distribution, and production planning and control, and then demonstrate the integration with financial accounting and controlling. You will learn about the most important functions as well as organizational and master data objects, and by the end of the book you will also know which components are assigned to each module. Finally, using case studies, you will walk step by step through the three most important end-to-end processes in SAP S/4HANA: Order to Cash, Purchase to Pay and Forecast to Fulfill. - Cross-module presentation of business processes - SAP basic terms

explained in a simple and understandable way - Introduction to the new user interface SAP Fiori - Includes 4 hours of video material [An Architectural and Practical Guide to IBM Hybrid Integration Platform](#) Jan 03 2021 In order to remain competitive in today's world, companies need to be able to integrate internally and externally by connecting sensors, customers and partners with the information in their systems of record. In short, they need to integrate with everything. This IBM® Redbooks® publication describes how IBM Application Integration Suite and IBM Messaging

portfolio can be used to satisfy the needs of core hybrid integration use cases, accelerating companies in their digital transformation journey. All concepts are explained within the context of these use cases: Joining the API economy
Improving productivity
Refactoring for innovation
The target audience for this book is cloud and integration architects and specialists who are implementing hybrid integration solutions.

IBM Z Integration Guide for Hybrid Cloud Jul 21 2022

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 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. [Serverless Integration Design Patterns with Azure](#)
Sep 30 2020
Whether you work for a small start-up or for a large enterprise, this book can help you understand Microsoft Cloud Integration technologies to

Integrate application and business processes. By using this book, readers will be able to learn various Architecture design principles while connecting Enterprise application with Azure components. [Creating Hybrid Clouds with IBM Bluemix Integration Services](#) Feb 22 2020 A hybrid cloud is considered as the integration of multiple clouds that are aligned to the unique characteristics of different system types. IBM® defines a hybrid cloud as a secure cloud computing environment that uses services from two or more sources, such as a private cloud, public cloud, or

traditional IT sources. A hybrid cloud transforms roles throughout the organization and allows business leaders and developers to innovate efficiently and faster. Applications that are built around a hybrid cloud infrastructure typically revolve around at least one of the following pillars of hybrid integration: API-centric applications Data-centric applications Event-centric applications This IBM Redbooks® Solution Guide describes Bluemix® integration services and how to use them to connect Bluemix applications to on-premise systems. *Cloud Storage*

Gateway Sep 11 2021 How do you use Cloud storage gateway data and information to support organizational decision making and innovation? In the case of a Cloud storage gateway project, the criteria for the audit derive from implementation objectives. an audit of a Cloud storage gateway project involves assessing whether the recommendations outlined for implementation have been met. in other words, can we track that any Cloud storage gateway project is implemented as planned, and is it working? Is the impact that Cloud storage gateway has shown? Can

Management personnel recognize the monetary benefit of Cloud storage gateway? How to Secure Cloud storage gateway? This premium Cloud storage gateway self-assessment will make you the trusted Cloud storage gateway domain specialist by revealing just what you need to know to be fluent and ready for any Cloud storage gateway challenge. How do I reduce the effort in the Cloud storage gateway work to be done to get problems solved? How can I ensure that plans of action include every Cloud storage gateway task and that every Cloud storage gateway outcome is

in place? How will I save time investigating strategic and tactical options and ensuring Cloud storage gateway opportunity costs are low? How can I deliver tailored Cloud storage gateway advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Cloud storage gateway essentials are covered, from every angle: the Cloud storage gateway self-assessment shows succinctly and clearly that what needs to be clarified to organize

the business/project activities and processes so that Cloud storage gateway outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Cloud storage gateway practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Cloud storage gateway are maximized with professional results. Your purchase includes access to the \$249 value Cloud storage gateway self-assessment dashboard

download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

Getting Started with IBM WebSphere Cast Iron Cloud

Integration Mar 17 2022 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.

Communication, Networks and Computing Apr 06 2021

Science Gateways for Distributed Computing Infrastructures

Jun 08 2021 The book describes the science gateway building technology

developed in the SCI-BUS European project and its adoption and customization method, by which user communities, such as biologists, chemists, and astrophysicists, can build customized, domain-specific science gateways. Many aspects of the core technology are explained in detail, including its workflow capability, job submission mechanism to various grids and clouds, and its data transfer mechanisms among several distributed infrastructures. The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways.

T Bytes Platforms

& Applications

Apr 18 2022 This document brings together a set of latest data points and publicly available information relevant for Platforms & Applications This document brings together a set of latest data points and publicly available information relevant for Platforms & Applications periodic publication immensely.

AWS Cloud Architecture Patterns

Nov 01 2020 This book is on AWS Cloud Architecture Patterns and will help you understand many common patterns we commonly use as solutions

architects. Though examples used in the book use AWS cloud services, the cloud architecture patterns discussed in the book can also help you to apply them to other cloud platforms as well. In some chapters, you will notice that some AWS services have been discussed in a bit of detail - I thought the detail was needed to explain well from the AWS Cloud platform perspective. Consider this book an AWS Cloud solutions architecture book in a narrow sense, as some use cases have a broader scope. The book talks about Serverless patterns, Compute patterns, Queue-Centric Workflow patterns,

Retry Patterns, Node Failure Patterns, Colocate Patterns, CDN Patterns, Fan-out Patterns, Multisite Deployment Patterns, Block IP Address Patterns, and more. Cloud Storage Gateway Oct 12 2021 How do you use Cloud storage gateway data and information to support organizational decision making and innovation? In the case of a Cloud storage gateway project, the criteria for the audit derive from implementation objectives. an audit of a Cloud storage gateway project involves assessing whether the recommendations outlined for implementation

have been met. in other words, can we track that any Cloud storage gateway project is implemented as planned, and is it working? Is the impact that Cloud storage gateway has shown? Can Management personnel recognize the monetary benefit of Cloud storage gateway? How to Secure Cloud storage gateway? This premium Cloud storage gateway self-assessment will make you the trusted Cloud storage gateway domain specialist by revealing just what you need to know to be fluent and ready for any Cloud storage gateway challenge. How do I reduce the effort in the

Cloud storage gateway work to be done to get problems solved? How can I ensure that plans of action include every Cloud storage gateway task and that every Cloud storage gateway outcome is in place? How will I save time investigating strategic and tactical options and ensuring Cloud storage gateway opportunity costs are low? How can I deliver tailored Cloud storage gateway advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all

Cloud storage gateway essentials are covered, from every angle: the Cloud storage gateway self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Cloud storage gateway outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Cloud storage gateway practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any

efforts in Cloud storage gateway are maximized with professional results. Your purchase includes access to the \$249 value Cloud storage gateway self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. **Cloud Enterprise Architecture** Nov 20 2019 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.

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