

Ibm Integration Bus V10 Application Development I

Accelerating Modernization with Agile IntegrationEssentials of Application Development on IBM
CloudHybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration
ServicesSystems of Insight for Digital Transformation: Using IBM Operational Decision Manager
Advanced and Predictive AnalyticsUnemployment Compensation Interpretation ServiceUnemployment
Compensation Interpretation ServiceInstantaneous Power Theory and Applications to Power
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Azraq Jesse Aulsebrook Whei-Jen Chen United States. Bureau of Employment Security Hirofumi Akagi
IEEE Industry Applications Society. Meeting IEEE, Power Engineering Society Staff Vincent Del Toro
John R. Purvis

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Predictive Analytics Unemployment Compensation Interpretation Service Unemployment Compensation
Interpretation Service Instantaneous Power Theory and Applications to Power Conditioning Electronics &
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Meeting IEEE, Power Engineering Society Staff Vincent Del Toro John R. Purvis*

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

this ibm redbooks publication is designed to teach university students and app developers the foundation skills that are required to develop test and deploy cloud based applications on ibm cloud it shows the latest features of ibm cloud for developing cloud applications enhancing applications by using managed services and the use of devops services to manage applications this book is used as presentations guide for the ibm skills academy track cloud application developer and as preparation material for the ibm professional certification exam ibm certified application developer cloud platform the primary target audience for this course is university students in undergraduate computer science and computer engineer programs with no previous experience working in cloud environments however anyone new to cloud computing or ibm cloud can also benefit from this course

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 Integration Services* SG24-8277 and can be found at the following website: redbooks.ibm.com/redbooks/nsf/redbookabstracts/sg248277.html. *Open Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services* SG24-8281 is a companion book to SG24-8277 and focuses on event-centric hybrid cloud integrations with Bluemix.

Systems of record (SORs) are engines that generate value for your business. Systems of engagement (SOEs) are always evolving and generating new customer-centric experiences and new opportunities to capitalize on the value in the systems of record. The highest value is gained when systems of record and systems of engagement are brought together to deliver insight. Systems of insight (SOIs) monitor and analyze what is going on with various behaviors in the systems of engagement and information being stored or transacted in the systems of record. SOIs seek new opportunities, risks, and operational behavior that needs to be reported or have action taken to optimize business outcomes. Systems of insight are at the core of the digital experience, which tries to derive insights from the enormous amount of data generated by automated processes and customer interactions. Systems of insight can also provide the ability to apply analytics and rules to real-time data as it flows within, throughout, and beyond the enterprise applications, databases, mobile, social, Internet of Things (IoT), to gain the wanted insight. Deriving this insight is a key step toward being able to make the best decisions and take the most appropriate actions. Examples of such actions are to improve the number of satisfied clients, identify clients at risk of leaving and incentivize them to stay loyal, identify patterns of risk or fraudulent behavior and take action to minimize it as early as possible, and detect patterns of behavior in operational systems and transportation that lead to failures, delays, and maintenance and take early action to minimize risks and costs. IBM Operational Decision Manager (ODM) is a decision management platform that provides capabilities that support both event-driven insight patterns and business rule-driven scenarios. It also can easily be used in combination with other IBM analytics solutions, as the detailed examples will show. IBM ODM advanced, along with complementary IBM software offerings that also provide capability for systems of insight, provides a way to deliver the greatest value to your customers and your business. IBM ODM advanced brings together data from different sources to recognize meaningful trends and patterns. It empowers business users to define, manage, and automate repeatable operational decisions. As a result, organizations can create and shape customer-centric business

moments this ibm redbooks publication explains the key concepts of systems of insight and how to implement a system of insight solution with examples it is intended for it architects and professionals who are responsible for implementing a systems of insights solution requiring event based context pattern detection and deterministic decision services to enhance other analytics solution components with ibm operational decision manager advanced

this book covers instantaneous power theory as well as the importance of design of shunt series and combined shunt series active power filters and hybrid passive active power filters this new edition written by a team of experts in the field is fully updated with information on the latest electric power technology the instantaneous power theory or the p q theory makes clear the physical meaning of what instantaneous real and imaginary power is in a three phase circuit moreover it provides insight into how energy flows from a source to a load or circulates between phases in a three phase circuit this theory can be used in the design and understanding of facts flexible ac transmission system compensators the book introduces many concepts in the field of active filtering that are unique to this edition it provides a study tool for final year undergraduate students graduate students and engineers dealing with harmonic pollution problems reactive power compensation or power quality in general in addition the book illustrates pioneering applications of the p q theory to power conditioning which highlights distinct differences from conventional theories explores p q r theory to give a new method of analyzing the different powers in a three phase circuit provides exercises at the end of the chapters that are unique to the second edition

this conference focuses on practical applications of computers to system operations problems and to specific aspects of power generation and distribution the optimal power flow for economic operations is examined in several sessions also presented are computational approaches to distribution dynamics of voltage stability reactive power and harmonic power load corrections

a self contained introductory treatment of electric power systems it first covers basic principles and then focuses on the electric power system under conditions of balanced operation it also considers specific operating features and addresses balanced and unbalanced fault analysis

an index to library and information science literature

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