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Enabling IBM MQ Messaging with the IBM MQ Appliance
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Data Center Fundamentals
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Designing, Building, and Deploying Messaging Solutions
Developing Open Serverless Solutions
Proceedings of the Eleventh International Conference on Dependability and Complex Systems DepCoS-RELCOMEX. June 27–July 1, 2016, Brunów, Poland
Advances in Computers
OTM Confederated International Conferences, CoopIS, DOA, and ODBASE 2005, Agia Napa, Cyprus, October 31 - November 4, 2005, Proceedings, Part II
WebSphere Message Broker Basics
IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements

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Learning Visually with Examples
Dependability Engineering and Complex Systems
Security Guide for IBM i V6.1
Handbook of Enterprise Integration
WebSphere MQ Solutions in a Microsoft .NET Environment
IBM Sterling Managed File Transfer Integration with WebSphere Connectivity for a Multi-Enterprise Solution
Operating Systems and Middleware

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Enabling IBM MQ Messaging with the IBM MQ Appliance Packt Publishing Ltd
The differences between well-designed security and poorly designed security are not always readily apparent. Poorly designed systems give the appearance of being secure but can over-authorize users or allow access to non-users in subtle ways. The problem is that poorly designed security gives a false sense of confidence. In some ways, it is better to knowingly have no security than to have inadequate security believing it to be stronger than it actually is. But how do you tell the difference? Although it is not rocket science, designing and

implementing strong security requires strong foundational skills, some examples to build on, and the capacity to devise new solutions in response to novel challenges. This IBM® Redbooks® publication addresses itself to the first two of these requirements. This book is intended primarily for security specialists and IBM WebSphere® MQ administrators that are responsible for securing WebSphere MQ networks but other stakeholders should find the information useful as well. Chapters 1 through 6 provide a foundational background for WebSphere MQ security. These chapters take a holistic approach positioning WebSphere MQ in the context of a larger system of security controls including those of adjacent platforms' technologies as well as human processes. This approach seeks to eliminate the simplistic model of security as an island, replacing it instead with the model of security as an interconnected and living system. The intended audience for these chapters includes all stakeholders in the messaging system from architects and designers to developers and operations. Chapters 7 and 8 provide technical background to assist in preparing and configuring the scenarios and chapters 9 through 14 are the scenarios themselves. These chapters provide fully realized example configurations. One of the requirements for any scenario to be included was that it must first be successfully implemented

in the team's lab environment. In addition, the advice provided is the cumulative result of years of participation in the online community by the authors and reflect real-world practices adapted for the latest security features in WebSphere MQ V7.1 and WebSphere MQ V7.5. Although these chapters are written with WebSphere MQ administrators in mind, developers, project leaders, operations staff, and architects are all stakeholders who will find the configurations and topologies described here useful. The third requirement mentioned in the opening paragraph was the capacity to devise new solutions in response to novel challenges. The only constant in the security field is that the technology is always changing. Although this book provides some configurations in a checklist format, these should be considered a snapshot at a point in time. It will be up to you as the security designer and implementor to stay current with security news for the products you work with and integrate fixes, patches, or new solutions as the state of the art evolves.

Secure Messaging Scenarios with WebSphere MQ Elsevier Embedded System Interfacing: Design for the Internet-of-Things (IoT) and Cyber-Physical Systems (CPS) takes a comprehensive approach to the interface between embedded systems and software. It provides the principles needed to understand how digital and analog interfaces

work and how to design new interfaces for specific applications. The presentation is self-contained and practical, with discussions based on real-world components. Design examples are used throughout the book to illustrate important concepts. This book is a complement to the author's Computers as Components, now in its fourth edition, which concentrates on software running on the CPU, while Embedded System Interfacing explains the hardware surrounding the CPU. Provides a comprehensive background in embedded system interfacing techniques Includes design examples to illustrate important concepts and serve as the basis for new designs Discusses well-known, widely available hardware components and computer-aided design tools

Data Center Fundamentals Springer This volume is number 67 in the series Advances in Computers that began back in 1960. This is the longest continuously published series of books that chronicles the evolution of the computer industry. Each year three volumes are produced presenting approximately 20 chapters that describe the latest technology in the use of computers today. Volume 67, subtitled "Web technology," presents 6 chapters that show the impact that the World Wide Web is having on our society today. The general theme running throughout the volume is the ubiquity of web

services. Topics such as wireless access and its problems and reliability of web communications are emphasized. Key features: In-depth surveys and tutorials on software development approaches Well-known authors and researchers in the field Extensive bibliographies with most chapters All chapters focus on Internet and web technology issues Discussion of wireless communication and forensic issues, currently important research areas In-depth surveys and tutorials on software development approaches Well-known authors and researchers in the field Extensive bibliographies with most chapters All chapters focus on Internet and web technology issues Discussion of wireless communication and forensic issues, currently important research areas Learning Informatica PowerCenter 9.x Packt Publishing Ltd
These proceedings present the results of the Eleventh International Conference on Dependability and Complex Systems DepCoS-RELCOMEX which took place in a picturesque Brunów Palace in Poland from 27th June to 1st July, 2016. DepCoS-RELCOMEX is a series of international conferences organized annually by Department of Computer Engineering of Wrocław University of Science and Technology since 2006. The roots of the series go as far back as to the seventies of the previous century – the first RELCOMEX conference took place in 1977 – and now its main

aim is to promote a multi-disciplinary approach to dependability problems in theory and engineering practice of complex systems. Complex systems, nowadays most often computer-based and distributed, are built upon a variety of technical, information, software and human resources. The challenges in their design, analysis and maintenance not only originate from the involved technical and organizational structures but also from the complexity of the information processes that must be efficiently executed in a diverse, often hostile operational environment. Traditional methods of reliability evaluation focused only on technical resources are usually insufficient in this context and more innovative, multidisciplinary methods of dependability analysis must be applied. The diversity of the topics which need to be considered is well illustrated by the selection of the submissions in these proceedings with their subjects ranging from mathematical models and design methodologies through software engineering and data security issues up to practical problems in technical, e.g. transportation, systems.
Developing Mobile Java Applications Morgan Kaufmann
bull; Covers basic J2ME profiles and popular mobile Java APIs fresh from the Java Community Process bull; Explains wireless Java technologies that enable mobile commerce and Web services bull; Provides

complete sample code for each technology covered bull; Written by award-winning author, Michael Yuan -- JavaWorld columnist for the "Wireless Java " column Information Literacy Assessment IBM Redbooks
Includes more than 30 percent revised material and five new chapters, covering the new 2.1 features such as EJB Timer Service and JMS as well as the latest open source Java solutions The book was developed as part of TheServerSide.com online EJB community, ensuring a built-in audience Demonstrates how to build an EJB system, program with EJB, adopt best practices, and harness advanced EJB concepts and techniques, including transactions, persistence, clustering, integration, and performance optimization Offers practical guidance on when not to use EJB and how to use simpler, less costly open source technologies in place of or in conjunction with EJB

Designing, Building, and Deploying Messaging Solutions
Prentice Hall Professional
This IBM® Redbooks® publication describes how IBM has enhanced its managed file transfer portfolio consisting of MQ File Transfer Edition with the Sterling Business Integration Suite. The Sterling Business Integration Suite consists of Sterling File Gateway and Sterling Connect:Direct. Sterling Commerce, an IBM company, transforms and optimizes your business collaboration network by

improving business agility, efficiency, and performance. These managed file transfer components from Sterling Commerce, an IBM company, partnered with MQ File Transfer Edition deliver proven value by protecting privacy and integrity of data in transit with governance, eliminate operations cell center traffic regarding file transfer exceptions, show a faster time to revenue, and bring a six-sigma level performance to key business processes. The integration and combination of these products allows for organizations to switch between protocols internally, allowing for diversity across business needs while still positioning the organization to easily move files outside their secured intra-enterprise network through an edge server to the external trading partner regardless of what protocol the external trading partner is using. This book is intended for organizations that find themselves wanting to trade data in a secure, reliable, and auditable way across both intra-enterprise and multi-enterprise protocols. Pearson Education Applications in enterprises need to communicate, most commonly done by messaging. Apache ActiveMQ is an open-source implementation of the Java Message Service (JMS), which provides messaging in Java applications. ActiveMQ in Action is a thorough, practical guide to implementing message-oriented systems using ActiveMQ and Java. Co-

authored by one of the leading ActiveMQ developers, Bruce Snyder, the book starts with the anatomy of a core Java message, then moves quickly through fundamentals including data persistence, authentication and authorization. Later chapters cover advanced features such as configuration and performance tuning, illustrating each concept with a running real-world stock portfolio application. Readers will learn to integrate ActiveMQ with Apache Geronimo and JBoss, and tie into both Java and non-Java technologies including AJAX, .NET, C++, Ruby, and the Spring framework. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Developing Open Serverless Solutions IBM Redbooks

This IBM® Redbooks® Solution Guide describes the IBM MQ Appliance M2000, an application connectivity option that combines secure, reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance. The concept behind the IBM MQ Appliance M2000 is simple: Combine the customer-proven scalability and security of IBM MQ messaging software with the simplicity, ease-of-use, and low total costs of a hardware appliance. Enterprises have long used IBM MQ messaging to integrate applications, systems, and services

reliably and securely. Now, with the IBM MQ Appliance M2000, IBM adds a state-of-the-art hardware option that is fast to deploy and uses fewer administrative and infrastructure resources than running multiple messaging servers. Messaging servers are only part of the cost of messaging integration. There also is the expense of configuring and maintaining the servers and software, and for many enterprises, the challenge of extending the infrastructure to multiple, far-flung geographic locations. Also, by its nature, messaging infrastructure must be highly available and responsive to enormous fluctuations in demand. Therefore, the industry needs a new approach to application connectivity, one that is fast and easy to deploy, simple to maintain, reliably secure, and cost-effective. With the IBM MQ Appliance M2000, IBM offers the messaging performance of IBM MQ with the convenience and costs savings of a robust physical component. This Solution Guide is intended for enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment. Proceedings of the Eleventh International Conference on Dependability and Complex Systems DepCoS-RELCOMEX. June 27–July 1, 2016, Brunów, Poland Max Hailperin Serverless computing

greatly simplifies software development. Your team can focus solely on your application while the cloud provider manages the servers you need. This practical guide shows you step-by-step how to build and deploy complex applications in a flexible multicloud, multilanguage environment using Apache OpenWhisk. You'll learn how this platform enables you to pursue a vendor-independent approach using preconfigured containers, microservices, and Kubernetes as your cloud operating system. Michele Sciabarrà demonstrates how to build a serverless application using classical design patterns and the programming language or languages that best fit your task. You'll start by building a simple serverless application hands-on before diving into the more complex aspects of the OpenWhisk platform. Examine how OpenWhisk's serverless architecture works, including the use of packages, actions, sequences, triggers, rules, and feeds Learn how OpenWhisk compares to existing architectures, such as Java Enterprise Edition Manipulate OpenWhisk features using the command-line interface or a JavaScript API Design applications using common Gang of Four design patterns Use architectural design patterns such as model-view-controller to combine several OpenWhisk actions Learn how to test and debug your code in a serverless environment

Advances in Computers

IBM Redbooks

If you wish to deploy Informatica in enterprise environments and make a career in data warehousing, then this book is for you. Whether you are a developer who's new to Informatica or an experienced professional, you will learn all the features of Informatica. Basic knowledge of programming and data warehouse concepts is essential.

OTM Confederated International Conferences, CoopIS, DOA, and ODBASE 2005, Agia Napa, Cyprus, October 31 - November 4, 2005, Proceedings, Part II IBM Redbooks

Big Data Analytics with Spark is a step-by-step guide for learning Spark, which is an open-source fast and general-purpose cluster computing framework for large-scale data analysis. You will learn how to use Spark for different types of big data analytics projects, including batch, interactive, graph, and stream data analysis as well as machine learning. In addition, this book will help you become a much sought-after Spark expert. Spark is one of the hottest Big Data technologies. The amount of data generated today by devices, applications and users is exploding. Therefore, there is a critical need for tools that can analyze large-scale data and unlock value from it. Spark is a powerful technology that meets that need. You can, for example, use Spark to perform low latency computations through the use of efficient caching and iterative algorithms; leverage the features of

its shell for easy and interactive Data analysis; employ its fast batch processing and low latency features to process your real time data streams and so on. As a result, adoption of Spark is rapidly growing and is replacing Hadoop MapReduce as the technology of choice for big data analytics. This book provides an introduction to Spark and related big-data technologies. It covers Spark core and its add-on libraries, including Spark SQL, Spark Streaming, GraphX, and MLlib. Big Data Analytics with Spark is therefore written for busy professionals who prefer learning a new technology from a consolidated source instead of spending countless hours on the Internet trying to pick bits and pieces from different sources. The book also provides a chapter on Scala, the hottest functional programming language, and the program that underlies Spark. You'll learn the basics of functional programming in Scala, so that you can write Spark applications in it. What's more, Big Data Analytics with Spark provides an introduction to other big data technologies that are commonly used along with Spark, like Hive, Avro, Kafka and so on. So the book is self-sufficient; all the technologies that you need to know to use Spark are covered. The only thing that you are expected to know is programming in any language. There is a critical shortage of people with big data expertise, so companies are willing to

pay top dollar for people with skills in areas like Spark and Scala. So reading this book and absorbing its principles will provide a boost—possibly a big boost—to your career.

WebSphere Message Broker Basics IBM Redbooks

IBM WebSphere® Message Broker is a lightweight, advanced enterprise service bus (ESB) that provides a broad range of integration capabilities that enable companies to rapidly integrate internal applications and connect to partner applications. Messages from business applications can be transformed, augmented and routed to other business applications. The types and complexity of the integration required will vary by company, application types, and a number of other factors. Processing logic in WebSphere Message Broker is implemented using message flows. Through message flows, messages from business applications can be transformed, augmented, and routed to other business applications. Message flows are created by connecting nodes together. A wide selection of built-in nodes are provided with WebSphere Message Broker. These nodes perform tasks that are associated with message routing, transformation, and enrichment. Message flows are created and tested using the Message Broker Toolkit, a sophisticated, easy-to-use programming tool that provides a full range of programming aids. This

IBM® Redbooks® publication focuses on two specific integration requirements that apply to many midmarket companies. The first is the ability to use WebSphere Message Broker to integrate Microsoft.NET applications into a broader connectivity solution. WebSphere Message Broker V8 introduces the ability to integrate with existing Microsoft .NET Framework applications. A .NET assembly can be called from within a message flow and the WebSphere Message Broker runtime can host and run .NET code. Solutions explored in this book cover connectivity to applications using Windows Communications Framework (WCF), Microsoft Message Queuing, Microsoft Dynamics CRM, and other Microsoft applications. The second is the ability to integrate WebSphere Message Broker with file transfer networks, specifically with WebSphere MQ File Transfer Edition and IBM Sterling Connect Direct.

IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements IBM Redbooks

The IBM® i operation system (formerly IBM i5/OS®) is considered one of the most secure systems in the industry. From the beginning, security was designed as an integral part of the system. The System i® platform provides a rich set of security features and services that pertain to the goals of authentication, authorization, integrity, confidentiality, and

auditing. However, if an IBM Client does not know that a service, such as a virtual private network (VPN) or hardware cryptographic support, exists on the system, it will not use it. In addition, there are more and more security auditors and consultants who are in charge of implementing corporate security policies in an organization. In many cases, they are not familiar with the IBM i operating system, but must understand the security services that are available. This IBM Redbooks® publication guides you through the broad range of native security features that are available within IBM i Version and release level 6.1. This book is intended for security auditors and consultants, IBM System Specialists, Business Partners, and clients to help you answer first-level questions concerning the security features that are available under IBM. The focus in this publication is the integration of IBM 6.1 enhancements into the range of security facilities available within IBM i up through Version release level 6.1. IBM i 6.1 security enhancements include: - Extended IBM i password rules and closer affinity between normal user IBM i operating system user profiles and IBM service tools user profiles - Encrypted disk data within a user Auxiliary Storage Pool (ASP) - Tape data save and restore encryption under control of the Backup Recovery and Media Services for i5/OS (BRMS) product, 5761-BR1 - Networking security enhancements including

additional control of Secure Sockets Layer (SSL) encryption rules and greatly expanded IP intrusion detection protection and actions. DB2® for i5/OS built-in column encryption expanded to include support of the Advanced Encryption Standard (AES) encryption algorithm to the already available Rivest Cipher 2 (RC2) and Triple DES (Data Encryption Standard) (TDES) encryption algorithms. The IBM i V5R4 level IBM Redbooks publication IBM System i Security Guide for IBM i5/OS Version 5 Release 4, SG24-6668, remains available.

Designing, Building, and Deploying Messaging Solutions American Library Association

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8 environments. The target audience of this book is IT architects and consultants who want more information about the planning and designing of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for WebSphere Application Server V8 and

WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z/OS® V8. This book contains information about migration considerations when moving from previous releases.

IBM MQ as a Service: A Practical Approach IGI Global

The power of IBM® MQ is its flexibility combined with reliability, scalability, and security. This flexibility provides a large number of design and implementation choices. Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure. Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages. These applications can run within a substantial array of software and hardware environments. Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information technology (IT) system of a business. IBM MQ V8.0 was released in June 2014. Before that release, the product name was IBM WebSphere® MQ. This IBM Redbooks® publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood. A broad understanding of the product features is key to making informed design and implementation

choices for both the infrastructure and the applications that access it. Details of new areas of function for IBM MQ are introduced throughout this book, such as the changes to security, publish/subscribe clusters, and IBM System z exploitation. This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application.

IBM WebSphere Transformation Extender 8.2 IBM Redbooks

& • Details the JMS API, covering the latest version 1.1, and discusses application development based on IBM WebSphere implementations & & • Key coverage on WebSphere MQ, Websphere MQ Event Broker, JMS administration tasks, and common usage scenarios & & • Examples coding JMS in servlets, portlets, EJBs and communicating with non-JMS applications

IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide IBM Redbooks

IBM® Intelligent Operations Center is an integrated solution. It provides a rich set of capabilities and line of business tools that business users with domain expertise and no technical background can use without customization. IBM Intelligent Operations Center also provides services and extension points that developers can use to extend the IBM Intelligent Operations

Center standard functions and develop capabilities specific to the domain and client requirements. IBM Intelligent Operations Center includes an application-based programming model that supports all the interactions with the solution components. The programming model is based on industry standard Representational State Transfer (REST) and Java technologies. IBM Intelligent Operations Center includes a full set of REST and Java application programming interfaces (APIs) that provide a simplified development environment and make the platform easy to extend and customize for a large community of developers. This IBM Redbooks® publication gives a broad understanding of the IBM Intelligent Operations Center 1.6.0.1 programming model and available extension points. Many of the chapters describe working examples and usage scenarios that demonstrate how to extend the IBM Intelligent Operations Center base platform. This book includes sample code that can be downloaded from the IBM Redbooks website. The target audience for this book consists of solution architects, developers, technical consultants, and solution administrators who will learn the following information: The options available to extend the IBM Intelligent Operations Center solution programmatically How to configure customizations tailored to specific customer

requirements How to use the available configuration tools to configure the solution without requiring programming Readers of this book will benefit from the IBM Redbooks publication IBM® Intelligent Operations Center 1.5 to 1.6 Migration Guide , SG24-8202.

Supporting Controlled Interaction Vervante

This IBM® Redbooks® publication is divided into four parts: Part 1 introduces message-oriented middleware and the WebSphere® MQ product. It explains how messaging technologies are implemented in WebSphere MQ and shows how to get started with configuring a WebSphere MQ environment. This part briefly lists the new features of WebSphere MQ V7.1 and V7.5. Part 2 introduces the enhancements to WebSphere MQ in Version 7 Release 1. It provides a description of the new features, their business value, and usage examples. It describes enhancements to WebSphere MQ for multiplatforms and z/OS®. Examples of features that are discussed in this part include multiple installation support for multiplatforms, enhanced security with channel authentication records, enhanced clustering, improved availability and scalability on z/OS, and more. Part 3 introduces the enhancements to WebSphere MQ in Version 7 Release 5 for multiplatforms. It provides a description of the new

features, their business value, and usage examples. Examples of enhancements that are discussed in this part include new installation options, such as the bundling of WebSphere MQ Advanced Message Security and WebSphere MQ Managed File Transfer. Part 4 contains practical scenarios that demonstrate how the new features and enhancements work and how to use them. In summary, the introduction gives a broad understanding of messaging technologies and WebSphere MQ. It helps you understand the business value of WebSphere MQ. It provides introductory information to help you get started with WebSphere MQ. No previous knowledge of the product and messaging technologies is assumed. The remaining parts of this book discuss enhancements to previous versions of WebSphere MQ. The information helps you understand the benefits of upgrading to WebSphere MQ V7.1 and V7.5 and how to implement the new functions. Knowledge of WebSphere MQ V7.0 and earlier versions is assumed. This book provides details about IBM WebSphere MQ product features and enhancements that are required for individuals and organizations to make informed application and design decisions prior to implementing a WebSphere MQ infrastructure or begin development of a WebSphere MQ

application. This publication is intended to be of use to a wide-ranging audience.

Web Technology John Wiley & Sons

This hands-on, example-driven guide is a practical getting started tutorial with plenty of step-by-step instructions for beginner to intermediate level readers working with BPEL PM in Oracle SOA SuiteWritten for SOA developers, administrators, architects, and engineers who want to get started with Oracle BPEL PM 11g. No previous experience with BPEL PM is required, but an understanding of SOA and web services is assumed

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