

Websphere Application Server 8 Administration Guide

Monitoring and managing your system's performance is critical to ensure that you are keeping pace with the changing demands of your business. To respond to business changes effectively, your system must change too. Managing your system, at first glance, might seem like just another time-consuming job. But the investment soon pays off because the system runs more efficiently, and this is reflected in your business. It is efficient because changes are planned and managed. Managing performance of any system can be a complex task that requires a thorough understanding of that system's hardware and software. IBM® i is an industry leader in the area of performance management and has many qualities that are not found in other systems, such as: - Unparalleled performance metrics - Always-on collection of metrics - Graphical investigation of performance data While understanding all the different processes that affect system performance can be challenging and resolving performance problems requires the effective use of a large suite of tools, the functions offered by IBM i are intended to make this job easier for users. This IBM Redbooks® publication explains the tasks and rich tools associated with performance management on IBM i.

- This is the latest practice test to pass the C9510-418 IBM WebSphere Application Server Network Deployment V9.0 Core Administration Exam. - It contains 128 Questions and Answers. - All the questions are 100% valid and stable. - You can reply on this practice test to pass the exam with a good mark and in the first attempt.

IBM WebSphere Application Server Interview Questions You'll Most Likely Be Asked is a perfect companion to stand ahead above the rest in today's competitive job market.

The IBM® Operational Decision Manager product family provides value to organizations that want to improve the responsiveness and precision of automated decisions. This decision management platform on IBM z/OS® provides comprehensive automation and governance of operational decisions that are made within mainframe applications. These decisions can be shared with other cross-platform applications, providing true enterprise decision management. This IBM Redbooks® publication makes the case for using Operational Decision Manager for z/OS and provides an overview of its components. It is aimed at IT architects, enterprise architects, and development managers looking to build rule-based solutions. Step-by-step guidance is provided about getting started with business rules by using a scenario-based approach. This book provides detailed guidelines for testing and simulation and describes advanced options for decision authoring. Finally, it describes and documents multiple runtime configuration options. This third edition, SG24-8014-02, of this IBM Redbooks publication updated the information presented in this book to reflect function available in IBM Operational Decision Manager for z/OS Version 8.7.1.

This IBM® Redbooks® publication describes how to exchange data between applications running in two separate enterprises reliably and securely. This book includes an overview of the concepts of managed file transfer, the technologies that can be used, and common topologies for file transfer solutions. It then provides four scenarios that address different requirements. These scenarios provide a range of options that can be suited to your individual needs. This book is intended for anyone who needs to

design or develop a file transfer solution for his enterprise. The first scenario shows the use of an HTTPS web gateway to allow files to be transferred from an external web client to an internal WebSphere MQ File Transfer Edition backbone network. This option uses the WebSphere MQ File Transfer Edition Web Gateway SupportPac FO02. The second scenario uses the WebSphere MQ File Transfer Edition bridge agent to allow files to be transferred from an external File Transfer Protocol (FTP)/Secure File Transfer Protocol (SFTP) server to a WebSphere MQ File Transfer Edition backbone network. The third scenario extends the concept of file transfer between enterprises by introducing more sophisticated transfer capabilities, along with enhanced security. This scenario uses the IBM WebSphere DataPower B2B Appliance XB60 to look at the specific case of file transfers between business partners. The last scenario also illustrates the integration of the IBM WebSphere DataPower B2B Appliance XB60 and WebSphere MQ File Transfer Edition, but in this case, non-business-to-business protocols are used. The file transfer is further enhanced through the use of WebSphere® Message Broker to mediate the file transfer for routing and protocol transformation within the enterprise.

Mainframe computers play a central role in the daily operations of many of the world's largest corporations, and batch processing is a fundamental part of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. Although several IBM Redbooks® publications discuss application modernization on the IBM z/OS platform, this book specifically addresses batch processing in detail. Many different technologies are available in a batch environment on z/OS systems. This book demonstrates these technologies and shows how the z/OS system offers a sophisticated environment for batch. In this practical book, we discuss a variety of themes that are of importance for batch workloads on z/OS systems and offer examples that you can try on your own system. The audience for this book includes IT architects and application developers, with a focus on batch processing on the z/OS platform.

Many companies have built data warehouses (DWs) and have embraced business intelligence (BI) and analytics solutions. Even as companies have accumulated huge amounts of data, however, it remains difficult to provide trusted information at the right time and in the right place. The amount of data collected and available throughout the enterprise continues to grow even as the complexity and urgency of receiving meaningful information continues to increase. Producing meaningful and trusted information when it is needed can only be achieved by having a proper information architecture in place and a powerful underlying infrastructure. The amounts of data to mine, cleanse, and integrate are becoming so large that increasingly the infrastructure is becoming the bottleneck. This results in low refresh rates of the data in the data warehouse and in not having the information available in time where it is needed. And even before information can become available in a BI dashboard or a report, many preceding steps must take place: the collection of raw data; integration of data from multiple data stores, business units or geographies; transformation of data from one format to another; cubing data into data cubes; and finally, loading changes to data in the data warehouse. Combining the complexity of the information requirements, the growing amounts of data, and multiple layers of the information architecture requires an extremely powerful infrastructure. This IBM® Redguide™ publication explains

how you can use IBM System z® as the foundation for your information management architecture. The System z value proposition for information management is fueled by the traditional strengths of the IBM mainframe, the specific strengths of DB2® for z/OS®, and the broad functionality of the IBM information management software portfolio. For decades, System z has proven its ability to manage vast amounts of mission-critical data for many companies throughout the world; your data is safe on System z. The available information management functionality on System z has grown from database management systems to a full stack of solutions including solutions for content management, master data management, information integration, data warehousing, and business intelligence and analytics. The availability of Linux® on System z provides an excellent opportunity to place certain components in an easy-to-manage and scalable virtualized Linux server, while benefitting from the System z hardware strengths. DB2 on z/OS can remain the operational data store and the underlying database for the data warehouse. The next generation of System z is growing into a heterogeneous architecture with which you can take advantage of System z-managed "accelerators" running on IBM System x® or IBM Power Blades. The first of these accelerators is the IBM Smart Analytics Optimizer for DB2 for z/OS V1.1, an "all-in-one" solution in which System z, z/OS, DB2 on z/OS, an IBM BladeCenter®, and IBM storage work together to accelerate certain queries by one to two orders of magnitude. With the IBM Smart Analytics Optimizer, slices of data are periodically offloaded from DB2 on z/OS to the BladeCenter. After a query is launched against that data, it will automatically run against the data kept on the BladeCenter. The BladeCenter will process the query an order of magnitude faster than DB2 on z/OS, because all data is cached in internal memory on the BladeCenter and special compression techniques are used to keep the data footprint small and efficient. As a solid information management architecture ready for the future, System z has it all.

This IBM® Redbooks® publication brings together subject matter experts with experience using the leading IBM customer interaction platform for cross-channel and online commerce, IBM WebSphere® Commerce, with the powerful IBM Sterling Order Management, which coordinates order fulfillment from all channels and across the extended enterprise. An integrated solution was built in the lab that illustrates how these products can be integrated to benefit IBM customers. This publication focuses on the integration of the IBM high-volume commerce solution designed to address enterprise commerce needs by delivering a rich, robust multi-channel customer experience, with Sterling Order Management, designed to enable supplier collaboration with management and order fulfillment process optimization. By integrating WebSphere Commerce and Sterling Order Management with out-of-the-box components, we prove that customers are provided an end-to-end solution to address a complete opportunity for a fulfillment life cycle that is cost effective and easy to implement. This publication targets a technical audience for the documentation of the integration approach by explaining the solution architecture and the implementation details. However, this publication also contains introductory chapters that contain executive summary material and provides well-documented scenarios with use cases for business analysts whose domain would be these systems.

IBM WebSphere Application Server 8.0 Administration Guide is a highly practical, example-driven tutorial. You will be introduced to WebSphere Application Server 8.0, and guided through configuration, deployment, and tuning for optimum performance. If you

are an administrator who wants to get up and running with IBM WebSphere Application Server 8.0, then this book is not to be missed. Experience with WebSphere and Java would be an advantage, but is not essential.

This IBM® Redbooks® publication describes the architecture and components of IBM InfoSphere® Optim™ Performance Manager Extended Edition. Intended for DBAs and those involved in systems performance, it provides information for installation, configuration, and deployment. InfoSphere Optim Performance Manager delivers a new paradigm used to monitor and manage database and database application performance issues. It describes product dashboards and reports and provides scenarios for how they can be used to identify, diagnose, prevent, and resolve database performance problems. IBM InfoSphere Optim Query Workload Tuner facilitates query and query workload analysis and provides expert recommendations for improving query and query workload performance. Use InfoSphere Optim Performance Manager to identify slow running queries, top CPU consumers, or query workloads needing performance improvements and seamlessly transfer them to InfoSphere Optim Query Workload Tuner for analysis and recommendations. This is done using query formatting annotated with relevant statistics, access plan graphical or hierarchical views, and access plan analysis. It further provides recommendations for improving query structure, statistics collection, and indexes including generated command syntax and rationale for the recommendations.

In this IBM® Redbooks® publication, you will gain an appreciation of the IBM CICS® Transaction Gateway (CICS TG) product suite, based on key criteria, such as capabilities, scalability, platform, CICS server support, application language support, and licensing model. Matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available. In this book, you will gain an understanding of those choices, and will be capable of choosing the appropriate CICS connection protocol, APIs for the applications, and security options. You will understand the services available to the application developer when using a chosen protocol. You will then learn about how to implement CICS TG solutions, taking advantage of the latest capabilities, such as IPIC connectivity, high availability, and Dynamic Server Selection. Specific scenarios illustrate the usage of CICS TG for IBM z/OS®, and CICS TG for Multiplatforms, with CICS Transaction Server for z/OS and IBM WebSphere® Application Server, including connections in CICS, configuring simple end-to-end connectivity (all platforms) with verification for remote and local mode applications, and adding security, XA support, and high availability.

- This is the latest practice test to pass the C9510-401 IBM WebSphere Application Server Network Deployment V8.5.5 and Liberty Profile, System Administration Exam. - It contains 70 Questions and Answers. - All the questions are 100% valid and stable. - You can rely on this practice test to pass the exam with a good mark and in the first attempt.

This book shows you how to use Swing to add a GUI to your Jython scripts, with an emphasis on the WebSphere Application Server wsadmin utility. In fact, we're going to teach you Swing using Jython, and we're going to do it in a way that, hopefully, that makes your scripts easier for people to use, more robust, more understandable, and therefore easier to maintain.

Manage and administer your WebSphere application server to create a reliable, secure, and scalable environment for running your applications with this book and eBook.

IBM® i2® Integrated Law Enforcement is an IBM Smarter Cities® solution that addresses the needs of modern-day law enforcement agencies. It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components. As a framework, IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new, external systems. In doing so, an organization can respond and adapt to its changing needs. Simply stated, the configuration, integration, and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement. This IBM Redpaper™ publication explains the technology and the architecture on which the solution is built. Most importantly, this paper enables technical teams to install, configure, and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1.0.1. This paper is targeted to solution architects, system and deployment engineers, security specialists, data management experts, system analysts, software developers and test engineers, and system administrators. Readers of this paper will benefit from the IBM Redguide™ publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116.

This module explains the growing number of Application Servers and their variants (Mobile Application Servers, Commerce Servers, B2B Servers, Multimedia and Collaboration Servers). This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. The focus of this module of the handbook is on application servers that package several middleware and infrastructure services into a platform for development, deployment, and management of modern applications. Chapters of this module explain the principles of application servers and systematically discuss a) Mobile Application Servers based on WAP, I-Mode, J2ME, and others; b) Commerce Servers based on e-payment systems, electronic catalogs, XML, secure C2B trade; c) B2B Servers based on ebXML, Web Services, workflows, EDI, EAI; d) Multimedia and Collaboration Servers based on groupware, SMIL and RTP; and e) "Super Application Servers" that combine numerous services needed for Web, mobile applications, and EC/EB applications on a single platform (IBM's WebSphere is an example). Chapters of the module also include several real life examples and case studies to highlight practical applications. Additional information and instructor material available from author website (www.amjadumar.com).

This IBM® Redbooks® publication provides a technical overview of the features, functions, and enhancements that are available in IBM i 7.2, including all the available Technology Refresh (TR) levels, from TR1 to TR3. This publication provides a summary and brief explanation of the many capabilities and functions in the operating system. It also describes many of the licensed programs and application development tools that are associated with IBM i. The information that is provided in this book is useful for clients, IBM Business Partners, and IBM service professionals that are involved with planning, supporting, upgrading, and implementing IBM i 7.2 solutions.

The IBM® Workload Deployer appliance provides a solid foundation for private cloud strategy, enabling the rapid

adoption and deployment of both infrastructure and platform as a Service offering. The IBM Workload Deployer uses the concept of patterns to describe the logical configuration of both the physical and virtual assets that comprise a particular solution. The use of patterns allows an organization to construct an individual element or integrated solution one time, and then dispense the final product on demand. Virtual system patterns are comprised of an operating system and IBM software solutions, such as WebSphere® Application Server and WebSphere Virtual Enterprise. Virtual application patterns are constructed to support a single application workload. This book focuses on the virtual systems capability of the IBM Workload Deployer and specifically addresses the process of building customized virtual systems that go beyond the standard capabilities of the virtual images available with the product. The book starts by describing private clouds and how they can benefit your business. It introduces the IBM Workload Deployer and its capabilities, and then talks about the various tools that you can use to enhance the process of planning, customizing, and automating virtual system deployment. A sample is used to illustrate how the standard virtual images that are available for the IBM Workload Deployer can be customized for a robust solution that includes dynamic workload management, high-performing data caching, and monitoring of system state. The book then discusses how you can use the IBM Workload Deployer to facilitate the progression of an application through its lifecycle. Finally, an overview is provided of the troubleshooting capabilities that come with the IBM Workload Deployer.

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.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

IBM DB2® for z/OS® is a high-performance database management system (DBMS) with a strong reputation in traditional high-volume transaction workloads that are based on relational technology. IBM WebSphere® Application Server is web application server software that runs on most platforms with a web server and is used to deploy, integrate, execute, and manage Java Platform, Enterprise Edition applications. In this IBM® Redbooks® publication, we describe the application architecture evolution focusing on the value of having DB2 for z/OS as the data server and IBM z/OS® as the platform for traditional and for modern applications. This book provides background technical information about DB2 and WebSphere features and demonstrates their applicability presenting a scenario about configuring WebSphere Version 8.5 on z/OS and type 2 and type 4 connectivity (including the XA transaction support) for accessing a DB2 for z/OS database server taking into account high-availability requirements. We also provide considerations about developing applications, monitoring performance, and documenting issues. DB2 database administrators, WebSphere specialists, and Java application developers will appreciate the holistic approach of this document.

Organizations face case management challenges that require insight, responsiveness, and collaboration. IBM® Case Manager, Version 5.2, is an advanced case management product that unites information, process, and people to provide the 360-degree view of case information and achieve optimized outcomes. With IBM Case Manager, knowledge workers can extract critical case information through integrated business rules, collaboration, and analytics. This easy access to information enhances decision-making ability and leads to more successful case outcomes. IBM Case Manager also helps capture industry preferred practices in frameworks and templates to empower business users and accelerate return on investment. This IBM Redbooks® publication introduces the case management concept. It includes the reason for and benefits of case management, and why it is different from the traditional business process management or content management. In addition, this book addresses how you can design and build a case management solution with IBM Case Manager and integrate that solution with external products and components. This book is intended to provide IT architects and IT specialists with the high-level concepts of case management and the capabilities of IBM Case Manager. It also serves as a practical guide for IT professionals who are responsible for designing, building, customizing, and

deploying IBM Case Manager solutions.

In this IBM Redbooks publication, we discuss and describe a multidimensional data warehousing infrastructure that can enable solutions for complex problems in an efficient and effective manner. The focus of this infrastructure is the InfoSphere Warehouse Cubing Services Feature. With this feature, DB2 becomes the data store for large volumes of data that you can use to perform multidimensional analysis, which enables viewing complex problems from multiple perspectives, which provides more information for management business decision making. This feature supports analytic tool interfaces from powerful data analysis tools, such as Cognos 8 BI, Microsoft Excel, and Alphablox. This is a significant capability that supports and enhances the analytics that clients use as they work to resolve problems with an ever growing scope, dimension, and complexity. Analyzing problems by performing more detailed queries on the data and viewing the results from multiple perspectives yields significantly more information and insight. Building multidimensional cubes based on underlying DB2 relational tables, without having to move or replicate the data, enables significantly more powerful data analysis with less work and leads to faster problem resolution with the capability for more informed management decision making. This capability is known as No Copy Analytics and is made possible with InfoSphere Warehouse Cubing Services.

This IBM® Redbooks® publication describes how to build a production topology for business process management (BPM) solutions. The target audience is IT architects and IT specialists who want to implement a production topology in secured production environments and who have a high-level understanding of WebSphere® BPM products. This book emphasizes the steps for a successful installation without root access and without a graphic user interface (GUI). This book addresses the following products and provides instructions for creating a production-level Remote Messaging and Remote Support environment using a deployment environment pattern: WebSphere Process Server V7.0.0.2

WebSphere Business Monitor V7.0.0.2 WebSphere Business Services Fabric V7.0.0.2

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® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing Java™ Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6)

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applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming Guide, SG24-7672.

This IBM® Redbooks® publication provides system administrators and developers with the knowledge to configure an IBM WebSphere® Application Server Version 8 runtime environment, to package and deploy applications, and to perform ongoing management of the WebSphere environment. As one in a series of IBM Redbooks publications and IBM Redpapers publications for V8, the entire series is designed to give you in-depth information about key WebSphere Application Server features. In this book, we provide a detailed exploration of the WebSphere Application Server V8 runtime administration process. This book includes configuration and administration information for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and WebSphere Application Server for z/OS® V8. The following publications are prerequisites for this book: WebSphere Application Server V8.0 Technical Overview, REDP-4756 IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide, SG24-7957

Save Time and Money: Streamline WebSphere Application Server Management with Jython Scripting! Utilizing Jython scripting, you can dramatically reduce the effort, resources, and expense associated with managing WebSphere Application Server. WebSphere Application Server Administration Using Jython will show you how. The first start-to-finish guide to Jython scripting for WebSphere administration, this book's practical techniques and downloadable scripts can help you improve efficiency, repeatability, and automation in any WebSphere environment. This book's expert authors begin with practical introductions to both WebSphere Application Server administration and Jython, today's powerful, Java implementation of Python. Next, they cover a broad spectrum of WebSphere management tasks and techniques, presenting real, easy-to-adapt solutions for everything from server configuration and security to database management. These are powerful solutions you can begin using immediately—whether you're running WebSphere in production, development, or test environments. Coverage includes Mastering the Jython rules, characteristics, and properties that are most valuable in WebSphere scripting Viewing and manipulating WebSphere configuration and run-time details Making the most of the wsadmin scripting engine and objects—including rarely-used wsadmin parameters that can simplify administration Adjusting wsadmin properties to reflect your needs and environment Using the AdminApp scripting object to list, view, install, uninstall, and modify AppServer applications Using the AdminTask object to manipulate WebSphere Application Server at a high level Configuring the WebSphere Application Server with AdminConfig Manipulating active AppServer objects (MBeans) with AdminControl Controlling security, including aliases, roles, administrative and application security, and multiple security domains

The IBM Informix® Dynamic Server (IDS) has the tools to build a powerful data warehouse infrastructure platform to lower costs and increase profits by doing more with your existing operational data and infrastructure. The Informix Warehouse Feature simplifies the process for design and deployment of a high performance data warehouse. With a state-of-the-art extract, load, and transform (ELT) tool and an Eclipse-based GUI environment that is easy to use, this comprehensive platform provides the foundation you need to cost effectively build and deploy the

data warehousing infrastructure, using the IBM Informix Dynamic Server, and needed to enable the development and use of next-generation analytic solutions . This IBM® Redbooks® publication describes the technical information and demonstrates the functions and capabilities of the Informix Dynamic Server Warehouse Feature. It can help you understand how to develop a data warehousing architecture and infrastructure to meet your particular requirements, with the Informix Dynamic Server. It can also enable you to transform and manage your operational data, and use it to populate your data warehouse. With that new data warehousing environment, you can support the data analysis and decision-making that are required as you monitor and manage your business processes, and help you meet your business performance management goals, objectives, and measurements.

This IBM® Redbooks® publication provides a technical overview of the features, functions, and enhancements available in IBM i 7.1, including all the Technology Refresh (TR) levels from TR1 to TR7. It provides a summary and brief explanation of the many capabilities and functions in the operating system. It also describes many of the licensed programs and application development tools that are associated with IBM i. The information provided in this book is useful for clients, IBM Business Partners, and IBM service professionals who are involved with planning, supporting, upgrading, and implementing IBM i 7.1 solutions.

In this IBM® Redbooks® publication, we describe the role Cognos® plays in an Information On Demand (IOD) solution for IBM System z® and detail the functions of IBM Cognos 8 BI for Linux® on System z in current deployment scenarios. We show typical deployment architectures that show how to access disparate data sources both on and off the System z platform and show how the functions of the Cognos family of products provides a way to consolidate different BI solutions on System z. We provide examples of Cognos functions for resolving business requirements using reporting and OLAP capabilities as well as general deployment considerations of IBM Cognos 8 BI for Linux on System z. This publication is meant to help the Cognos Business Intelligence professional understand the strong points of System z architecture and the database specialist appreciate the Cognos family of products.

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8.5 environments. The target audience of this book is IT architects and consultants who want more information about the planning and design of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server, 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 and Websphere Application Server Network Deployment on distributed platforms. It also includes guidelines for WebSphere Application Server for IBM z/OS®. This book contains information about migration considerations when moving from previous releases. This book has been updated with the new features introduced with WebSphere Application Server V8.5.5. IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developers with a smaller production runtime, and production environments. For developers, it focuses on the tasks that a developer does most frequently, and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a dynamic, small footprint runtime to be able to maximize system resources. This IBM Redbooks® publication targets administrators of Liberty environments. It provides the information needed to create, configure, and manage Liberty

servers. It includes information about managing multiple servers in an installation, including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book: WebSphere Application Server: New Features in V8.5.5, REDP-4870 WebSphere Application Server V8.5.5 Technical Overview, REDP-4855 IBM WebSphere Application Server V8.5 Concepts, Planning, and Design Guide, SG24-8022 WebSphere Application Server Liberty Profile Guide for Developers, SG24-8076

The IBM® Smart Analytics System 9600 is a single, end-to-end business analytics solution to accelerate data warehousing and business intelligence initiatives. It provides integrated hardware, software, and services that enable enterprise customers to quickly and cost-effectively deploy business-changing analytics across their organizations. As a workload-optimized system for business analytics, it leverages the strengths of the System z® platform to drive: Significant savings in hardware, software, operating, and people costs to deliver a complete range of data warehouse and BI capabilities Faster time to value with a reduction in the time and speed associated with deploying Business Intelligence Industry-leading scalability, reliability, availability, and security Simplified and faster access to the data on System z

This IBM® Redbooks® publication provides information about security concerning an organization's business process management (BPM) program, about common security holes that often occur in this field, and describes techniques for rectifying these holes. This book documents preferred practices and common security hardening exercises that you can use to achieve a reasonably well-secured BPM installation. Many of the practices described in this book apply equally to generic Java Platform and Enterprise Edition (J2EE) applications, as well as to BPM. However, it focuses on aspects that typically do not receive adequate consideration in actual practice. Also, it addresses equally the BPM Standard and BPM Advanced Editions, although there are topics inherent in BPM Advanced that we considered to be out of scope for this book. This book is not meant as a technical deep-dive into any one topic, technology, or philosophy. IBM offers a variety of training and consulting services that can help you to understand and evaluate the implications of this book's topic in your own organization.

This IBM® Redbooks® publication helps you plan and execute the migration of J2EE applications developed for Oracle WebLogic Server, JBoss, GlassFish, and Apache Tomcat, so that they run on WebSphere® Application Server V7. This book provides detailed information to plan migrations, suggested approaches for developing portable applications, and migration working examples for each of the platforms from which we migrated. It is not our intention to provide a feature-by-feature comparison of these application servers versus WebSphere Application Server V7, or to argue the relative

merits of the products, but to produce practical technical advice for developers who have to migrate applications from these vendors to WebSphere Application Server V7. The book is intended as a migration guide for IT specialists who are working on migrating applications written for other application servers to WebSphere Application Server V7.

This IBM® Redbooks® publication provides system administrators and developers with the knowledge to configure a WebSphere® Application Server V7 runtime environment, to package and deploy applications, and to perform ongoing management of the WebSphere environment. As one in a series of IBM Redbooks publications and Redpapers™ publications for V7, the entire series is designed to give you in-depth information about key WebSphere Application Server features. In this book, we provide a detailed exploration of the WebSphere Application Server V7 runtime administration process. The book includes configuration and administration information for WebSphere Application Server V7 and WebSphere Application Server Network Deployment V7 on distributed platforms and WebSphere Application Server for z/OS® V7. The following publications are considered prerequisites to this book: - WebSphere Application Server V7.0: Technical Overview, REDP-4482 - WebSphere Application Server V7: Concepts, Planning and Design, SG24-7708

IBM® Business Space powered by IBM WebSphere® is a common user interface framework for aggregating content and delivering it via a browser. A is a collection of related Web content that provides you with insight into your business. Part 1 of this IBM Redbooks® publication introduces Business Space and provides Business Process Management (BPM) usage patterns for it. Part 2 of this book use a fictional business scenario to show how business space widgets can be used to solve a variety of business problems, using products such as IBM WebSphere Process Server, IBM WebSphere Enterprise Service Bus, IBM WebSphere Business Monitor, IBM WebSphere Business Compass, and IBM WebSphere Business Services Fabric. Part 3 shows how to build custom Business Space widgets, and how to build clients and servers for these custom widgets. This book addresses Business Space powered by IBM WebSphere Version 7.0.

This book covers developing web applications with Ruby on Rails. It discusses Ajax, directory services, and web services. The book details the configuration of Ruby on Rails with different databases such as MySQL, Oracle and SQL Server 2005. In addition, it makes a comparison with PHP, the most commonly used scripting language for developing web applications. The book also provides example applications that may be modified to suit a developer's application. This IBM® Redbooks® publication can help you install, tailor, and configure WebSphere® Application Server for Developers V7 on the Microsoft® Windows® platform. WebSphere Application Server for Developers is a no-charge version of WebSphere Application Server for use in a development environment only. It allows application developers to develop and unit test against the same run time as the production version of WebSphere Application Server. This book

tells you how to perform these tasks: Download and install WebSphere Application Server for Developers V7. Use the command-line tools, web-based administrative console, and scripting tools. Deploy a web application with Java™ Database Connectivity (JDBC) to the application server with the first version of a sample application. Configure the sample application with Enterprise JavaBeans 3 (EJB3) and Java Persistence API (JPA). Add Java Message Service (JMS) and message-driven beans (MDBs) to the sample application and configure the built-in system integration bus (SIBus) messaging infrastructure. Add Representational State Transfer (RESTful) web service to the sample application. Incorporate WebSphere-specific application bindings files with the application. Enable debugging and produce and analyze JVM outputs. Learn how to use Eclipse to view and debug the sample applications.

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