

WebSphere Application Server 8 Installation Guide

This IBM® Redbooks® publication helps you with the integration of IBM PureApplication® System and IBM PureApplication Software into an existing data center. This publication describes certain scenarios that are considered critical (based on IBM client experiences) for a successful implementation of PureApplication Software or PureApplication System into an existing data center. It covers the planning, installation, and configuration of both PureApplication System and PureApplication Software. Both PureApplication System and PureApplication Software offer on-premises solutions that use proven patterns to extend your applications, reduce cost and complexity, and ease management. This book is useful for solution specialists, system or software architects, and the IT teams who need more in-depth knowledge about the integration of PureApplication System and PureApplication Software. 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 mobile industry is evolving rapidly. An increasing number of mobile devices, such as smartphones and tablets, are sold every year and more people are accessing services from a

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mobile device than ever before. For an enterprise, this can mean that a growing number of customers, business partners, and even employees now expect to access services on a mobile channel. This opens new opportunities for the business but also presents new challenges, both in terms of business processes and information technology (IT) infrastructure. IBM® Worklight® is an open mobile application platform. It helps organizations of all sizes to efficiently develop, connect, run, and manage HTML5, hybrid, and native applications. IBM Worklight provides the essential elements needed for complete mobile application development, deployment, and management within a business. This IBM Redbooks® publication provides information necessary to design, develop, deploy, and maintain mobile applications using IBM Worklight Version 5.0.5. It includes information about decision points that the IT organization will need to make, the roles that are involved in a mobile strategy and the responsibilities of the individuals in those roles. It also describes integration points with other IBM products that can enhance the mobile solution. This book has two parts: Part 1 is for a business-oriented IT audience and addresses business aspects of the mobile industry. It is for the IT architect or CTO, who can translate business needs into information technology solutions Part 2 is intended for a technical audience, including application developers, testers, and system administrators.

The Practical, Complete Guide to Leveraging the Power of Social Networks with Lotus Connections 2.5 The first book to cover the newest version of the breakthrough product from IBM: Lotus Connections 2.5. This book includes practical techniques for building dynamic networks of coworkers, partners, and customers that promote innovation, business agility, and authoritative guidance for business and technical planning, deployment, integration, and much

more. Social networking is the newest frontier in business collaboration, and IBM Lotus Connections 2.5 gives businesses the tools they need to make the most of it—easily, securely, and cost-effectively. In this book, a team of IBM Lotus Connections 2.5 experts thoroughly introduces the newest product and covers every facet of planning, deploying, and using it successfully. The authors cover business and technical issues and present IBM's proven, best-practices methodology for successful implementation. The authors begin by helping managers and technical professionals identify opportunities to use social networking for competitive advantage—and by explaining how Lotus Connections 2.5 places full-fledged social networking tools at their fingertips. IBM Lotus Connections 2.5 carefully describes each component of the product—including profiles, activities, blogs, communities, easy social bookmarking, personal home pages, and more. The book contains practical coverage of administering Lotus Connections 2.5 and detailed guidance of integrating and extending Lotus Connections 2.5. 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

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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 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 This IBM Redbooks® publication presents a Smart Analytics Cloud. The IBM Smart Analytics Cloud is an IBM offering to enable delivery of business intelligence and analytics at the customer location in a private cloud deployment. The offering leverages a combination of IBM hardware, software and services to offer customers a complete solution that is enabled at their site. In this publication, we provide the background and product information for decision-makers to proceed with a cloud solution. The content ranges from an introduction to cloud

computing to details about our lab implementation. The core of the book discusses the business value, architecture, and functionality of a Smart Analytics Cloud. To provide deeper perspective, documentation is also provided about implementation of one specific Smart Analytics Cloud solution that we created in our lab environment. Additionally, we also describe the IBM Smart Analytics Cloud service offering that can help you create your own Smart Analytics cloud solution that is tailored to your business needs.

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. This IBM® Redbooks® publication describes how to build production topologies for IBM Business Process Manager V8.0. This book is an update of the existing book IBM Business Process Manager V7.5 Production Topologies, SG24-7976. It is intended for IT Architects and IT Specialists who want to understand and implement these topologies. Use this book to select the appropriate production topologies for an environment, then follow the step-by-step instructions to build those topologies. Part 1 introduces IBM Business Process Manager and provides an overview of basic topology components, and Process Server and Process Center. This part also provides an overview of the production topologies described in this book, including a selection criteria for when to select a topology. IBM Business Process Manager security and the presentation layer are also addressed in this part. Part 2 provides a series of step-by-step instructions for creating production topology environments by using deployment environment patterns. This process includes topologies that incorporate IBM Business Monitor. This part also describes advanced topology topics. Part 3 covers post installation instructions for implementing production topology environments such as configuring IBM Business Process Manager to use IBM HTTP Server and WebSphere®

proxy server.

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.

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

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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 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 addresses topics to use the virtualization strengths

of the IBM POWER8® platform to solve clients' system resource utilization challenges and maximize systems' throughput and capacity. This book addresses performance tuning topics that will help answer clients' complex analytic workload requirements, help maximize systems' resources, and provide expert-level documentation to transfer the how-to-skills to the worldwide teams. This book strengthens the position of IBM Analytics and Big Data solutions with a well-defined and documented deployment model within a POWER8 virtualized environment, offering clients a planned foundation for security, scaling, capacity, resilience, and optimization for analytics workloads. This book is targeted toward technical professionals (analytics consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for providing analytics solutions and support on IBM Power Systems™.

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

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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 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 gives a broad understanding of a new 32-bit Java Virtual Machine (JVM) in IBM i5/OS. With the arrival of this new JVM, IBM System i platform now comfortably supports Java and WebSphere applications on a wide array of different server models: from entry size boxes to the huge enterprise systems. This book provides in-depth information about setting Java and IBM WebSphere environments with new 32-bit JVM, tuning its performance, and monitoring or troubleshooting its runtime with the new set of tools. Information in this book helps system architects, Java application developers, and system administrators in their work with 32-bit JVM in i5/OS. Important: Despite the fact that this book targets i5/OS implementation, most information in this book applies to all IBM server platforms, where

the new 32-bit JVM is supported.

This IBM Redbooks publication describes and demonstrates common, prescriptive scenarios for setting up disaster recovery for common workloads using IBM WebSphere Application Server, IBM DB2, and WebSphere MQ between two IBM PureApplication System racks using the features in PureApplication System V2. The intended audience for this book is pattern developers and operations team members who are setting up production systems using software patterns from IBM that must be highly available or able to recover from a disaster (defined as the complete loss of a data center).

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.

Build a comprehensive web portal for your company with the coverage of full development life cycle with this book and ebook.

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.

In this IBM® Redbooks® publication, we expand upon the concepts and experiences described in "An introduction to z/VM Single System Image (SSI) and Live Guest Relocation (LGR)", SG24-8006. An overview of that book is provided in Chapter 1, "Overview of SSI and LGR" on page 1. In writing this book, we re-used the same lab environment used in the first book, but expanded it to include IBM DB2® v10 on Linux on System z®, two IBM WebSphere® Application Server environments, and added a WebSphere application, used for performance benchmarking, which provided a workload that allowed us to observe the performance of the WebSphere Application

Server during relocation of the z/VM® 6.2 member that was hosting the application server. Additionally, this book examines the use of small computer system interface (SCSI) disks in the z/VM v6.2 environment and the results of using single system images (SSI) and live guest relocation (LGR) in this type of environment. In the previous book, a detailed explanation of relocation domains was provided. In this book, we expand that discussion and provide use cases of relocation domains in different situations. Finally, because the ability to back up and restore your data is of paramount importance, we have provided a discussion about how to use one tool, the IBM Backup and Restore Manager for z/VM, which can be used in the new z/VM6.2 environment. We provide a brief overview of the tool and describe the changes in the installation process as a result of using single system image clusters. We also demonstrate how to set up the configuration file, and how to back up and restore both a user and an identity. This publication is intended for IT architects who will be responsible for designing the system and IT specialists who will have to build the system.

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® Tivoli® Storage Productivity Center for Replication provides support for the advanced copy services capabilities on the DS8000® and DS6000™, in addition to the support for SAN Volume Controller. This support focuses on automating administration and configuration of these services, operational control (starting, suspending, resuming) copy services tasks, and monitoring and managing the copy services sessions. In addition to the support for FlashCopy® and Metro Mirror, Tivoli Storage Productivity Center for Replication supports Global Mirror on the DS8000, and SAN Volume hardware platforms. Advanced disaster recovery functions are also supported with failover/failback (planned and unplanned) from a primary site to a disaster recovery site. A new product, IBM Tivoli Storage Productivity Center for Replication Basic Edition for System z® enables Basic HyperSwap® on z/OS®, which allows the management of disk replication services using an intuitive GUI on z/OS systems. Tivoli Storage Productivity Center for Replication also can monitor the performance of the copy services that provide a measurement of the amount of replication and the amount of

time that is required to complete the replication operations. This IBM Redbooks® publication provides the information you need to install Tivoli Storage Productivity Center for Replication V5.1, and create and manage replication sessions on a z/OS platform. Scenarios are provided that document the work performed in our laboratory setting, using the GUI and CLI.

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 IBM® Redbooks® publication, intended for architects, application developers, and system programmers, describes how to design and implement Java web-based applications in an IBM CICS® Liberty JVM server. This book is based on IBM CICS Transaction Server V5.3 (CICS TS) using the embedded IBM WebSphere® Application Server Liberty V8.5.5 technology. Liberty is an asset to your organization, whether you intend to extend existing enterprise services hosted in CICS, or develop new web-based applications supporting new lines of business. Fundamentally, Liberty is a composable, dynamic profile of IBM WebSphere Application Server that enables you to provision Java EE technology on a feature-by-feature basis. Liberty can be provisioned with as little as the HTTP transport and a servlet web container, or with the entire Java EE 6 Web Profile feature set depending on your application requirements. This publication includes a Technology Essentials section for architects and application developers to help understand the underlying technology, an Up-and-Running section for system programmers implementing the Liberty JVM server for the first time, and a set of real-life application development scenarios.

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) 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.

With the benefit of advanced analytics such as online analytical processing (OLAP), data mining, and text analytics, the IBM® InfoSphere® Warehouse Enterprise Edition brings sophisticated business intelligence (BI) to warehouse

users. InfoSphere Warehouse allows you to run extreme concurrent query volumes that can help answer questions for all types of business users, while consistently meeting service level requirements. Combined with a virtualization platform and a solid BI solution, such as IBM Cognos®, you can deliver BI cloud services with improved flexibility and speed to your clients, thereby presenting a new avenue for which your services can be offered. This IBM Redbooks® publication discusses the deployment of a BI cloud solution. It includes details such as understanding the architecture of a cloud, planning implementation, integrating various software components, and understanding the preferred practices of running a cloud deployment. Essentially, this book can be used as a guide by anyone who is interested in deploying a virtualized environment for a BI cloud solution.

IBM WebSphere® eXtreme Scale provides a solution to scalability issues through caching and grid technology. It provides an enhanced quality of service in high performance computing environments. This IBM® Redbooks® publication introduces WebSphere eXtreme Scale and shows how to set up and use an eXtreme Scale environment. It begins with a discussion of the issues that would lead you to an eXtreme Scale solution. It then describes the architecture of eXtreme Scale to help you understand how the product works. It provides

information about potential grid topologies, the APIs used by applications to access the grid, and application scenarios that show how to effectively use the grid. This book is intended for architects who want to implement WebSphere eXtreme Scale. The original edition of this book was based on WebSphere eXtreme Scale version 6.1. It was published in 2008 and described as a "User's Guide". This second edition updates the information based on WebSphere eXtreme Scale version 8.6, and covers key concepts and usage scenarios. IBM WebSphere Application Server 8.0 Administration Guide Packt Publishing Ltd The Installation and Configuration Guide includes information to install and configure MicroStrategy products on Windows, UNIX, Linux, and HP platforms, as well as basic maintenance guidelines.

This IBM® Redbooks® publication addresses topics to leverage the virtualization strengths of the IBM Power platform to solve customer system resource utilization challenges and maximize system throughput and capacity. This IBM Redbooks publication will help you leverage the strengths of the POWER platform, provide implementation scenarios with Cognos® 8 Business Intelligence (BI) with the comprehensive set of the IBM PowerVMTM virtualization features, and identify and document best practices for exploiting the IBM PowerVM virtualization features within Cognos BI deployments to maximize

utilization of system resources and maximize Cognos throughput and capacity. This book is targeted toward technical professionals (BI consultants, technical support staff, IT architects, and IT specialists) responsible for providing business intelligence solutions and support for Cognos BI on POWER® systems. This IBM® Redbooks® publication explains the capabilities of IBM WebSphere® Application Server Liberty profile (Liberty profile), which is lightweight, easy to install, and fast to use. Liberty profile provides a convenient and capable platform for developing and testing your web and OSGi applications. The Liberty profile server is built by using OSGi technology and concepts. The fit-for-purpose nature of the run time relies on the dynamic behavior that is inherent in the OSGi framework and service registry. As bundles are installed or uninstalled from the framework, their services are automatically added or removed from the service registry. The result is a dynamic, composable run time that can be provisioned with only what your application requires and responds dynamically to configuration changes as your application evolves. This book can help you install, customize, and configure several popular open source technologies that can be deployed effectively with the Liberty profile server. The following popular open source toolkits for the Liberty profile server were selected for this book based on the significant enhancements they provide to the web application development

process: Apache Maven Spring Framework Hibernate Jenkins Opscode Chef Arquillian MongoDB In this book, the Todo sample demonstrates the use of multiple open source frameworks or toolkits with the Liberty profile server, including Maven, MongoDB, Spring, JPA, Arquillian, Wicket, and others. The Todo sample is a simple application that can be used to create, update, and delete todo items and todo lists, and put the todo items into a related todo list. 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: Developer with a smaller production run time, and production environments. For a developer, 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 run time to be able to maximize system resources. This IBM Redbooks® publication provides you with information to effectively use the WebSphere Application Server V8.5 Liberty profile along with the WebSphere Application Server Developer Tools for Eclipse, for development and testing of web applications that do not require a full Java Platform. It provides a quick guide on getting started, providing a scenario-based approach to demonstrate the capabilities of the Liberty profile along with the developer tools. This provides a simplified, but comprehensive, application development and testing environment. The intended audience for this book is developers of web and Open Services Gateway initiative (OSGi) applications who are familiar with web and OSGi application concepts. This book has been updated to reflect the new features in WebSphere

Application Server.

Service Component Architecture (SCA) defines a service-based model for building business process applications using an SOA approach. This ability to drive a business process using individual, reusable services is the heart of the SOA concept. With IBM® WebSphere® Application Server Feature Pack for Service Component Architecture, you can deploy SCA applications to WebSphere Application Server. This IBM Redpaper™ publication provides a starting point for using the Feature Pack for SCA. It provides an architectural view of SCA and of the Feature Pack. In addition, this paper explains how to create simple SCA components from existing Java™ and Spring implementations. It discusses how to apply quality of service to applications, and how to deploy and manage SCA artifacts in WebSphere Application Server. The examples in this paper use Rational® Application Developer to illustrate how to create and package SCA applications.

Optim™ Performance Manager Extended Edition, a follow-on to DB2® Performance Expert, is one of the key products of the IBM® Optim Solution. Optim Performance Manager Extended Edition provides a comprehensive, proactive performance management approach. It helps organizations resolve emergent database problems before they impact the business. This IBM Redbooks® publication describes the architecture and components of Optim Performance Manager Extended Edition. We provide information for planning the deployment of Optim Performance Manager and detail steps for successful installation, activation, and configuration of Optim Performance Manager and the Extended Insight client. Optim Performance Manager delivers a new paradigm in terms of how it is used to monitor and manage database and database application performance issues. We describe individual product dashboards and

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reports and discuss, with various scenarios, how they can be used to identify, diagnose, prevent, and solve database performance problems.

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

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AdminControl Controlling security, including aliases, roles, administrative and application security, and multiple security domains

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.

IBM® WebSphere eXtreme Scale provides a powerful, elastic, high-performance solution for scalability issues through caching and grid technology. This IBM Redbooks® publication shows architects and IT personnel how to leverage the power of WebSphere eXtreme Scale technology to enhance data caching performance in their enterprise networks. This book discusses the scalability challenges and solutions facing today's dynamic business and IT environments. Topics discussed include existing scalability solutions, how WebSphere eXtreme Scale can be integrated into these solutions, and best practices for using WebSphere eXtreme Scale in different environments, including application data caching and database caching. Also included is an in-depth discussion of the WebSphere eXtreme Scale infrastructure, such as grid clients and servers, the grid catalog service, zone support, and scalability sizing considerations. This book focuses on the challenges and benefits of integrating WebSphere eXtreme Scale with other middleware products, including WebSphere® Business Events, WebSphere Commerce, WebSphere Portal, and Rational® Jazz™-based

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products. Detailed procedures for integrating, configuring, and monitoring WebSphere eXtreme Scale in WebSphere Portal and WebSphere Commerce environments are provided.

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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

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