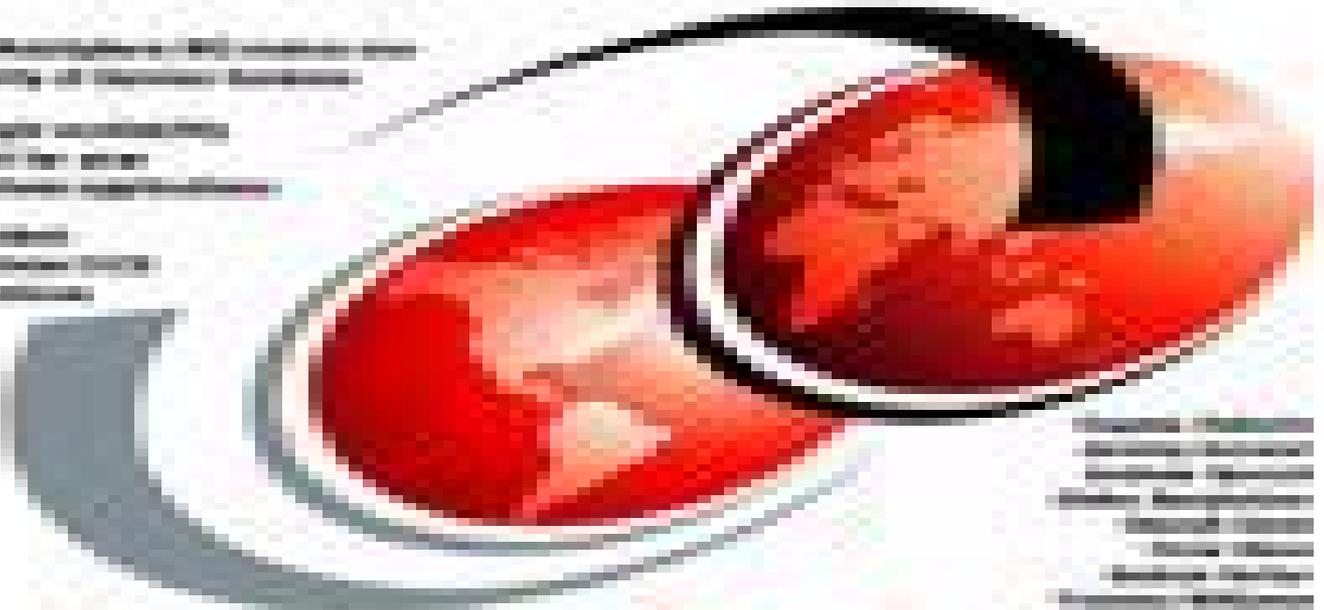


WebSphere MQ in a z/OS Parallel Sysplex Environment

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WebSphere Mq In A Z Os Parallel Sysplex Environment:

WebSphere MQ in a Z/OS Parallel Sysplex Environment Eugene Deborin,2002 *System z Parallel Sysplex Best Practices* Frank Kyne,Bert de Beer,Luis Martinez,Harriet Morril,Miha Petric,David Viguers,Suzi Wendler,IBM Redbooks,2011-01-11 This IBM Redbooks publication pulls together diverse information regarding the best way to design implement and manage a Parallel Sysplex to deliver the levels of performance and availability required by your organization This book should be of interest to system programmers availability managers and database administrators who are interested in verifying that your systems conform to IBM best practices for a Parallel Sysplex environment In addition to z OS and the sysplex hardware configuration this book also covers the major IBM subsystems CICS DB2 IMSTM MQ WebSphere Application Server To get the best value from this book readers should have hands on experience with Parallel Sysplex and have working knowledge of how your systems are set up and why they were set up in that manner CICS and SOA: Architecture and Integration Choices Chris Rayns,Mark Cocker,Regis David,Subhajit Maitra,Dan Millwood,Ian Mitchell,Phil Wakelin,Nigel Williams,IBM Redbooks,2012-03-26 The service oriented architecture SOA style of integration involves breaking an application down into common repeatable services that can be used by other applications both internal and external in an organization independent of the computing platforms on which the business and its partners rely In recent years CICS has added a variety of support for SOA and now provides near seamless connectivity with other IT environments This IBM Redbooks publication helps IT architects to select plan and design solutions that integrate CICS applications as service providers and requesters First we provide an introduction to CICS service enablement and introduce the architectural choices and technologies on which a CICS SOA solution can be based We continue with an in depth analysis of how to meet functional and non functional requirements in the areas of application interface security transactional scope high availability and scalability Finally we document three integration scenarios to illustrate how these technologies have been used by customers to build robust CICS integration solutions **Set Up Security and Integration with the DataPower XI50z for zEnterprise** Rufus Credle,Libor Cada,Karan Punwani,Noriyuki Samejima,Pradeep Thomas,Corrado Troncone,IBM Redbooks,2011-12-20 This IBM Redbooks publication discusses the new IBM WebSphere DataPower Integration Appliance XI50 for zEnterprise™ that bridges the gap between mainframe and distributed The DataPower XI50z a multifunctional appliance within the zEnterprise BladeCenter Extension zBX is managed with a single point of control which can help to streamline operations and maintenance The DataPower XI50z simplifies the translation of your existing formats to XML hardware acceleration for easier communication and connectivity This book will help you install tailor and configure the new attributes for implementing a zEnterprise ensemble network The zEnterprise System introduces internal virtual networks VLANs and additional networking attributes that need to be addressed Also we describe the planning considerations for the internal virtual networks and external networks This book is for anyone who wants an understanding

of the security on the zEnterprise that focuses on the usage of the XI50z Network Security Services As you can expect from an IBM Redbooks publication we provide several integration use cases that you are able to use immediately within a production environment for example the XI50z connecting with and using WebSphere MQ WMQ connecting with CICS connecting with IMSTM and connecting with DB2

Considerations for Transitioning Highly Available Applications to System z Alex Louwe Kooijmans,Fernando Gieseler,Christopher Hastings,Stuart Kopel,David Kra,James Mitchell,Eduardo Costa de Oliveira,Michael Onoufriou,Dore Teichman,David Ward,IBM Redbooks,2011-10-14 You may have several triggers to investigate the feasibility of moving a workload or set of workloads to the IBM System z platform These triggers could be concerns about operational cost manageability or delivering the agreed service levels among others Investigating the feasibility of a possible migration or transition to any other platform including System z requires a number of basic steps These steps usually start with an understanding of the current workload and its pain points and end with a business case to move the workload It is important to find out how easy a migration is going to be and how much risk will be involved In this IBM Redbooks publication we offer thoughts on how to move through these steps We also include a chapter with a System z technology summary to help you understand how a migrated workload may fit on the platform Our focus in this book is on workloads that are mission critical and require a high level of availability including disaster recovery

[IBM z16 Technical Introduction](#) Octavian Lascu,Ewerson Palacio,Bill White,IBM Redbooks,2023-10-11 This IBM Redbooks publication introduces the latest members of the IBM Z family IBM z16™ which is built with the IBM Telum™ processor and available in three different configuration options IBM z16 A01 IBM z16 A02 IBM z16 AGZ The IBM Z platform is recognized for its security resiliency performance and scale It is relied on for mission critical workloads and as an essential element of hybrid cloud infrastructures IBM z16 adds capabilities and value with innovative technologies that are needed to accelerate the digital transformation journey This book explains how IBM z16 innovations and traditional IBM Z strengths satisfy the growing demand for cloud analytics and a more flexible infrastructure With IBM z16 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk

IBM zEnterprise System Technical Introduction Ivan Dobos,Huabin Chu,Luiz Fadel,Wolfgang Fries,Octavian Lascu,Fernando Nogal,Frank Packheiser,Ewerson Palacio,Martijn Raave,Vicente Ranieri Jr.,Andre Spahni,Chen Zhu,IBM Redbooks,2014-03-31 In a smarter planet information centric processes are exploding in growth The mainframe has always been the IT industry s leading platform for transaction processing consolidated and secure data serving and support for available enterprise wide applications IBM has extended the mainframe platform to help large enterprises reshape their client experiences through information centric computing and to deliver on key business initiatives IBM zEnterprise is recognized as the most reliable and trusted system and the most secure environment for core business operations The new zEnterprise System consists of the IBM zEnterprise EC12 zEC12 or IBM zEnterprise BC12 zBC12 the IBM zEnterprise Unified Resource Manager and the

IBM zEnterprise IBM BladeCenter Extension zBX Model 003 This IBM Redbooks publication describes the zEC12 and zBC12 with their improved scalability performance security resiliency availability and virtualization The zEnterprise System has no peer as a trusted platform that also provides the most efficient transaction processing and database management With efficiency at scale delivering significant cost savings on core processes resources can be freed up to focus on developing new services to drive growth This book provides a technical overview of the zEC12 zBC12 zBX Model 003 and Unified Resource Manager This publication is intended for IT managers architects consultants and anyone else who wants to understand the elements of the zEnterprise System For this introduction to the zEnterprise System readers are not expected to be familiar with current IBM System z technology and terminology

IBM z15 Technical Introduction Bill White, Octavian Lascu, John Troy, Jannie Houlbjerg, Frank Packheiser, Paul Schouten, Kazuhiro Nakajima, Anna Shugol, Hervey Kamga, IBM Redbooks, 2021-05-03 This IBM Redbooks publication introduces the latest member of the IBM Z platform the IBM z15™ It includes information about the Z environment and how it helps integrate data and transactions more securely It also provides insight for faster and more accurate business decisions The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity and occupies an industry standard footprint It is offered as a single air cooled 19 inch frame called the z15 T02 or as a multi frame 1 to 4 19 inch frames called the z15 T01 Both z15 models excel at the following tasks Using hybrid multicloud integration services Securing and protecting data with encryption everywhere Providing resilience with key to zero downtime Transforming a transactional platform into a data powerhouse Getting more out of the platform with operational analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and IBM Z technologies This book explains how this system uses innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk

Architect's Guide to IBM CICS on System z Phil Wakelin, Ahmed Farrag, Steve Hobson, Manuel Jaen, Tommy Joergensen, Thiago Rotta, IBM Redbooks, 2012-11-20 IBM CICS Transaction Server CICS TS has been available in various guises for over 40 years and continues to be one of the most widely used pieces of commercial software This IBM Redbooks publication helps application architects discover the value of CICS Transaction Server to their business This book can help architects understand the value and capabilities of CICS Transaction Server and the CICS tools portfolio The book also provides detailed guidance on the leading practices for designing and integrating CICS applications within an enterprise and the patterns and techniques you can use to create CICS systems that provide the qualities of service that your business requires

IBM z13 and IBM z13s Technical Introduction Bill White, Cecilia A De Leon, Edzard Hoogerbrug, Ewerson Palacio, Franco Pinto, Barbara Sannerud, Martin Soellig, John Troy, Jin J Yang, IBM Redbooks, 2017-01-10 This IBM Redbooks publication introduces the latest IBM z Systems™ platforms the IBM

z13™ and IBM z13s It includes information about the z Systems environment and how it can help integrate data transactions and insight for faster and more accurate business decisions The z13 and z13s are state of the art data and transaction systems that deliver advanced capabilities that are vital to modern IT infrastructures These capabilities include Accelerated data and transaction serving Integrated analytics Access to the API economy Agile development and operations Efficient scalable and secure cloud services End to end security for data and transactions This book explains how these systems use both new innovations and traditional z Systems strengths to satisfy growing demand for cloud analytics and mobile applications With one of these z Systems platforms as the base applications can run in a trusted reliable and secure environment that both improves operations and lessens business risk [The Advertising Red Books](#) ,2008-07 [Rethink Your Mainframe Applications: Reasons and Approaches for Extension, Transformation, and Growth](#) Mike Ebbers,Alex Louwe Kooijmans,Michael Lowe,Helene Lyon,Stan Washington,Gary Wicks,IBM Redbooks,2013-05-04 Today there are new and exciting possibilities available to you for creating a robust IT landscape Such possibilities include those that can move current IT assets into the twenty first century while supporting state of the art new applications With advancements in software hardware and networks old and new applications can be integrated into a seamless IT landscape Mobile devices are growing at exponential rates and will require access to data across the current and new application suites through new channels Cloud computing is the new paradigm featuring anything from SaaS to full server deployment And although some environments are trying to virtualize and secure themselves others such as IBM zEnterprise have been at the forefront even before cloud computing entered the scene This IBM Redpaper™ publication discusses how transformation and extensibility can let you keep core business logic in IBM IMS™ and IBM CICS and extend BPM Business Rules and Portal in IBM WebSphere on IBM z OS or Linux on IBM System z to meet new business requirements The audience for this paper includes mainframe architects and consultants **Architecting High Availability Using WebSphere V6 on Z/OS** Patrick Ryan,Paul Rogers,2006 In this IBM Redbooks publication we describe how to configure the various components of an e business solution to exploit the availability and scalability benefits of zSeries and Parallel Sysplex using multiple LPARs running Linux for zSeries and z OS This publication applies to WebSphere for z OS V6 and is a continuation of the project evaluating high availability using WebSphere for z OS V5 and V4 Presented in three parts theory systems setup and availability tests we cover workload balancing the use of HTTP sessions various architectures and how to set up and test your infrastructures Considerations for configuring the systems and applications in an e business environment are also examined and we address such questions as Should there be separate front end systems for running the WebSphere Application Server How should e business components be configured to minimize or eliminate the impact of a system outage What is the best way to communicate between the WebSphere systems and the back end application systems What is the impact on the end user if there is a failure in one of the front end or back end systems **Improving z/OS Application Availability by**

Managing Planned Outages Frank Kyne, Andy Clifton, Justin Deane, Fernando Ferreira, Richard Gunjal, Chuck Laurent, John Papp, Judy Ruby-Brown, Maida Snapper, Michael Stephen, Dave Viguers, Marna Walle, Yvonne Zemotel, IBM Redbooks, 2014-12-22 This IBM Redbooks publication is intended to make System Programmers Operators and Availability Managers aware of the enhancements to recent releases of IBM z OS and its major subsystems in the area of planned outage avoidance It is a follow on to rather than a replacement for z OS Planned Outage Avoidance Checklist SG24 7328 Its primary objective is to bring together in one place information that is already available but widely dispersed It also presents a different perspective on planned outage avoidance Most businesses care about application availability rather than the availability of a specific system Also a planned outage is not necessarily a bad thing if it does not affect application availability In fact running for too long without an IPL or subsystem restart might have a negative impact on application availability because it impacts your ability to apply preventive service Therefore this book places more focus on decoupling the ability to make changes and updates to your system from IPLing or restarting your systems

ABCs of z/OS System Programming Volume 12 Paul Rogers, Alvaro Salla, IBM Redbooks, 2010-01-28 Installations today process different types of work with different response times Every installation wants to make the best use of its resources maintain the highest possible throughput and achieve the best possible system responsiveness You can realize such results by using workload management This IBM Redbooks publication introduces you to the concepts of workload management utilizing Workload Manager WLM Workload Manager allows you to define performance goals and assign a business importance to each goal You define the goals for work in business terms and the system decides how much resource such as CPU and storage should be given to the work The system matches resources to the work to meet those goals and constantly monitors and adapts processing to meet the goals This reporting reflects how well the system is doing compared to its goals because installations need to know whether performance goals are being achieved as well as what they are accomplishing in the form of performance goals The ABCs of z OS System Programming is a thirteen volume collection that provides an introduction to the z OS operating system and the hardware architecture Whether you are a beginner or an experienced system programmer the ABCs collection provides the information that you need to start your research into z OS and related subjects If you would like to become more familiar with z OS in your current environment or if you are evaluating platforms to consolidate your e business applications the ABCs collection will serve as a powerful technical tool

IBM MQ as a Service: A Practical Approach Lohitashwa Thyagaraj, Cezar Eduardo Aranha, Kiran Darbha, Dirk Marski, Rob Nicholson, Jamie Squibb, David Ware, IBM Redbooks, 2016-02-16 This IBM Redpaper™ publication provides information about how to build deploy and use IBM MQ as a service The information in this paper includes the key factors that must be considered while planning the use of IBM MQ as a service Through descriptions and examples this paper explains how to apply as a service methodologies to an IBM MQ environment and describes techniques and preferred practices for integrating IBM MQ into a self service portal This

paper explains how to create and use an IBM MQ as a service self service menu for a portal It includes examples that show how to use an IBM MQ as a service catalog This paper describes options and techniques for deploying IBM MQ as a service that is tailored to the specific enterprise messaging needs of an organization Although these techniques can be employed in a cloud environment they are equally applicable in an on premises enterprise data center This paper includes information about the various infrastructure options that can be selected when implementing IBM MQ as a service The information in this paper helps infrastructure administrators to define services so that you can provision IBM MQ resources quickly The target audiences of this paper are developers infrastructure administrators and line of business LOB professionals who want to provision IBM MQ resources to be accessed as services in small medium large and complex implementations *F&S Index United States Annual* ,1999

IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements Cezar Aranha,Craig Both,Barry Dearfield,Carolyn (Lyn) Elkins,Alexander Ross,Jamie Squibb,Mark Taylor,IBM Redbooks,2013-02-28 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 *Architecting High Availability Using WebSphere V6 on Z/OS* Patrick Ryan,Amr Khafagy,Brian

De Pradine, Frank Pani, Hong Min, G Connolly, 2006 In this IBM Redbooks publication we describe how to configure the various components of an e business solution to exploit the availability and scalability benefits of zSeries and Parallel Sysplex using multiple LPARs running Linux for zSeries and z OS This publication applies to WebSphere for z OS V6 and is a continuation of the project evaluating high availability using WebSphere for z OS V5 and V4 Presented in three parts theory systems setup and availability tests we cover workload balancing the use of HTTP sessions various architectures and how to set up and test your infrastructures Considerations for configuring the systems and applications in an e business environment are also examined and we address such questions as Should there be separate front end systems for running the WebSphere Application Server How should e business components be configured to minimize or eliminate the impact of a system outage What is the best way to communicate between the WebSphere systems and the back end application systems What is the impact on the end user if there is a failure in one of the front end or back end systems

Transaction

Processing: Past, Present, and Future Alex Louwe Kooijmans, Elsie Ramos, Niek De Greef, Dominique Delhumeau, Donna Eng Dillenberger, Hilon Potter, Nigel Williams, IBM Redbooks, 2012-09-29 The role of IT is becoming more prominent in people's daily lives and we are becoming increasingly dependent on computers More and more business transactions are being automated for example ordering a book at an online bookstore or transferring money to a bank account in another part of the world No matter the type of transaction we want it to be accurate and we want to have no doubts about its outcome Transactions are also becoming more complex driven by new ways of conducting business and new technologies Smartphones now allow us to conduct transactions anywhere and at anytime Technology paradigms such as Web 2.0 and business event processing enable businesses to increase the dynamics of a transaction through instrumentation that captures events analyzes the associated data and proactively interacts with the client in order to improve the customer experience To adapt to the increasing volume and complexity of transactions requires an ongoing assessment of the current way of supporting transactions with IT No matter what your business is you need to ensure that your transactions are properly completed with integrity Wrong or incomplete results can adversely affect client loyalty affect company profits and lead to claims lawsuits or fines Companies need to be able to rely on computer systems that are 100% reliable and guarantee transaction integrity at all times The IBM mainframe is such a platform Clients that have been using an IBM mainframe are conscious of its added value For this IBM Redguide™ publication we surveyed a number of companies that use the IBM mainframe and we asked them to tell us its most distinguishing qualities They answered unanimously reliability availability and scalability They also do not see an alternative for running their mission critical business workloads other than the IBM mainframe When we surveyed our clients we also asked them about the future Clearly major future trends demand significantly smarter faster and bigger transaction processing systems than we have today Some of these trends are the availability of new computing paradigms continuing growth of the mobile channel further integration of organizations

massive growth of unstructured and uncertain data and increasing complexity of IT systems IBM continues to invest in mainframe technology leadership which protects years of client investments on this platform Today well known transaction processing TP middleware such as the IBM CICS IBM IMS IBM z TPF and IBM WebSphere Application Server products and also solutions for service oriented architecture SOA and business process management BPM are available and fully optimized on the IBM mainframe running the mission critical business workloads of many companies the world over In 2010 IBM announced the IBM zEnterprise system introducing a hybrid computing platform that combines the traditional IBM mainframe capabilities and the ability to use IBM blade servers managed by a single management software With zEnterprise you can significantly reduce the complexity of your IT and achieve better service levels while continuing to benefit from traditional mainframe strengths in transaction processing

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