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This IBM® Redbooks® publication can help you install, tailor, and configure the new IBM PowerHA® Version 7.1.3, and understand new and improved features such as migrations, cluster administration, and advanced topics like configuring in a virtualized environment including workload partitions (WPARs). With this book, you can gain a broad understanding of the IBM PowerHA SystemMirror® architecture. If you plan to install, migrate, or administer a high availability cluster, this book is right for you. This book can help IBM AIX® professionals who seek a comprehensive and task-oriented guide for developing the knowledge and skills required for PowerHA cluster design, implementation, and daily system administration. It provides a combination of theory and practical experience. This book is targeted toward technical professionals (consultants, technical support staff, IT architects, and IT specialists) who are responsible for providing high availability solutions and support with the IBM PowerHA SystemMirror Standard on IBM POWER® systems. This IBM® Redbooks® publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with PowerVM® and PowerHA®. We describe guidelines, settings, and the implementation steps that are necessary to achieve a successful implementation. This book is for administrators who are familiar with the SAN, IBM SAN Volume Controller, and IBM PowerVM and PowerHA Systems. This IBM® Redbooks® publication provides an introduction to PowerVMTM virtualization technologies on Power System servers. PowerVM is a combination of hardware, firmware, and software that provides CPU, network, and disk virtualization. These are the main virtualization technologies:

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POWER7, POWER6, and POWER5 hardware POWER Hypervisor Virtual I/O Server Though the PowerVM brand includes partitioning, management software, and other offerings, this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions. This publication is also designed to be an introduction guide for system administrators, providing instructions for these tasks: Configuration and creation of partitions and resources on the HMC Installation and configuration of the Virtual I/O Server Creation and installation of virtualized partitions Examples using AIX, IBM i, and Linux This edition has been updated with the latest updates available and an improved content organization.

"This book serves many important purposes. The process approach to psychological assessment is articulated and the reader clearly instructed on its application when developing educational interventions. Information from relevant literature and results from clinical studies during the scale's development are provided to facilitate a clinically rich interpretation of a child's cognitive processes. The reader will learn many new administration and scoring procedures, because relative to the WISC-IV Integrated the fifth edition of the test includes modifications to item content, administration, and scoring procedures for retained subtests, as well as new subtests and the first composite scores ever developed for this measure"--

Presents information on identifying, screening, and assessing adolescents who use substances. This report focuses on the most current procedures and instruments for detecting substance abuse among adolescents, conducting comprehensive assessments, and beginning treatment planning. Presents appropriate strategies and guidelines for screening and assessment. Explains legal issues concerning Federal and State confidentiality laws. Provides guidance for

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screening and assessing adolescents in juvenile justice settings. Summarizes instruments to screen and assess adolescents for substance and general functioning domains. In a world where product lifespans are often measured in months, the IBM® Transaction Processing Facility has remained relevant for more than four decades by continuing to process high volumes of transactions quickly and reliably. As the title of this book suggests, the z/TPF system uses open, standard interfaces to create services. Integration of new applications with existing z/TPF functions is a key factor in extending application capabilities. The ability for service data objects (SDO) to access the z/TPF Database Facility (z/TPFDF) provides a framework for data application program development that includes an architecture and application programming interfaces (APIs). SDO access to z/TPFDF provides remote client applications with access to z/TPF traditional data. In the simplest terms, service-oriented architecture (SOA) is a means by which like, or unlike, systems can communicate with one another despite differences between each system's heritage. SOA can neutralize the differences between systems so that they understand one another. SOA support for z/TPF is a means by which z/TPF can interact with other systems that also support SOA. This book discusses various aspects of SOA in the z/TPF system, including explanations and examples to help z/TPF users implement SOA. IBM WebSphere® Application Server was chosen as the partner system as a means of demonstrating how a world class transaction server and a world class application server can work together. This book shows you how you can exploit z/TPF as a transaction server, participating in a SOA structure alongside WebSphere Application Server. This IBM Redbooks® publication provides an introduction to z/TPF and the technologies critical to SOA. z/TPF is positioned as a provider or consumer in an SOA by

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supporting SOAP processing, communication bindings, and Extensible Markup Language (XML). An example is used to show how z/TPF can be used both as a Web service provider and as a consumer. A second example shows how to use WebSphere Operational Decision Management to apply business rules. A third example shows how business event processing can be incorporated in z/TPF applications. An example is also used to discuss security aspects, including z/TPF XML encryption and the z/TPF WS-Security wrapper. The main part of the book concludes with a discussion of z/TPF in an open systems environment, including examples of lightweight implementations to fit z/TPF, such as the HTTP server for the z/TPF system. The appendixes include information and examples using TPF Toolkit, sample code, and workarounds (with yes, more examples).

This IBM Redbooks publication shows the strengths of z/VM and how you can use these strengths to create a highly flexible test and production environment. Some of the strengths of z/VM that are shown in this book are that you can run Linux on z/VM, you can run a sysplex under z/VM, and you can develop code under z/VM for z/TPF. You can also provision Linux guests under z/VM. A vswitch allows you to connect all of your guests (all operating systems that run under z/VM) easily to the network. You can simulate your production environment on a sysplex. The intention of this book is to show the strengths of z/VM and how you can use these strengths to simulate your production environment and expand your application development and testing environments.

KEY CONTENTS OF THIS GUIDE INCLUDE: -

Contains invaluable tips on how to prepare for abstract reasoning tests; - Written by an expert in this field in conjunction with recruitment experts; - Contains lots of sample test questions and answers.

This IBM® Redbooks® publication describes the IBM Storage Area Network and IBM SAN Volume Controller Stretched Cluster solution when combined with VMware. We describe guidelines, settings, and implementation steps necessary to achieve a satisfactory implementation. Business continuity and continuous application availability are among the top requirements for many organizations today.

Advances in virtualization, storage, and networking have made enhanced business continuity possible. Information technology solutions can now be designed to manage both planned and unplanned outages, and the flexibility and cost efficiencies available from cloud computing models. IBM has designed a solution that offers significant functionality for maintaining business continuity in a VMware environment. This functionality provides the capability to dynamically move applications across data centers without interruption to those applications. The live application mobility across data centers relies on these products and technology: The industry-proven VMware Metro vMotion IBM System Storage® SAN Volume Controller Stretched Cluster solution A Layer 2 IP

Network and storage networking infrastructure for high performance traffic management DC interconnect

This IBM® Redbooks® publication for IBM Power Systems™ with IBM PowerHA® SystemMirror® Standard and Enterprise Editions (hardware, software, practices, reference architectures, and tools) documents a well-defined deployment model within an IBM Power Systems environment. It guides you through a planned foundation for a dynamic infrastructure for your enterprise applications. This information is for technical consultants, technical support staff, IT architects, and IT specialists who are responsible for providing high availability and support for the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM POWER® systems.

IBM PowerHA SystemMirror for AIX Cookbook IBM Redbooks

IBM® PowerVM® virtualization technology is a combination of hardware and software that supports and manages the virtual environments on POWER5-, POWER5+, IBM POWER6®, and IBM POWER7®-based systems. PowerVM is available on IBM Power Systems™, and IBM BladeCenter® servers as optional Editions, and is supported by the IBM AIX®, IBM i, and Linux operating systems. You can use this set of comprehensive systems technologies and services to aggregate and manage

resources by using a consolidated, logical view. Deploying PowerVM virtualization and IBM Power Systems offers you the following benefits: Lower energy costs through server consolidation Reduced cost of your existing infrastructure Better management of the growth, complexity, and risk of your infrastructure This IBM Redbooks® publication is an extension of IBM PowerVM Virtualization Introduction and Configuration, SG24-7940. It provides an organized view of best practices for managing and monitoring your PowerVM environment concerning virtualized resources managed by the Virtual I/O Server.

This book is the Proceedings of a State-of-the-Art Workshop on Connections and the Behaviour, Strength and Design of Steel Structures held at Laboratoire de Mecanique et Technologie, Ecole Normale, Cachan France from 25th to 27th May 1987. It contains the papers presented at the above proceedings and is split into eight main sections covering: Local Analysis of Joints, Mathematical Models, Classification, Frame Analysis, Frame Stability and Simplified Methods, Design Requirements, Data Base Organisation, Research and Development Needs. With papers from 50 international contributors this text will provide essential reading for all those involved with steel structures.

As Linux on System z becomes more prevalent and mainstream in the industry, the need for it to deliver higher levels of availability is increasing. This IBM Redbooks publication starts with an explanation of high availability (HA) fundamentals such as HA concepts and terminology. It continues with a discussion of why a business needs to

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consider an HA solution and then explains how to determine your business single points of failure. We outline the components of a high availability solution and describe these components. Then we provide some architectural scenarios and demonstrate how to plan and decide an implementation of an end-to-end HA solution, from Linux on System z database scenarios to z/OS, and include storage, network, z/VM, Linux, and middleware. This implementation includes the IBM Tivoli System Automation for Multiplatforms (TSA MP), which monitors and automates applications distributed across Linux, AIX®, and z/OS® operating systems, as well as a GDPS based solution. It includes the planning for an end-to-end scenario, considering Linux on System z, z/VM, and z/OS operating environments, and the middleware used. The TSA MP implements HA for infrastructure, network, operating systems, and applications across multiple platforms and is compared to a Linux HA implementation based on open source Linux-HA, which is Linux only.

This book constitutes the proceedings of the International Conference on Brain Informatics and Health, BIH 2015, held in London, UK, in August/September 2015. The 42 full papers presented were carefully reviewed and selected from 82 submissions. Following the success of past conferences in this series, BIH 2015 has a strong emphasis on emerging trends of big data analysis and management technology for brain research, behavior learning, and real-world applications of brain science in human health and wellbeing.

Microcomputer development language; Microcomputer software development tools; In circuit emulators; Network development systems; Microcomputer development systems; System design kits; PROM programming; EPLD development tools.

This IBM® Redbooks® publication positions high availability solutions for IBM Power Systems™ with IBM PowerHA®



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SystemMirror® Standard and Enterprise Editions (hardware, software, best practices, reference architectures, migration, and tools) with a well-defined and documented deployment model within an IBM Power Systems environment allowing customers a planned foundation for a dynamic high available infrastructure for their enterprise applications. This Redbooks publication documents topics to leverage the strengths of IBM PowerHA SystemMirror Standard and Enterprise Editions 7.1.3 for IBM Power Systems to solve customers' application high availability challenges, and maximize systems' availability, and management. This Redbooks publication focuses on providing the readers with technical information and references on the capabilities of each edition, functionalities, usability, and features that make IBM PowerHA SystemMirror a premier solution for high availability and disaster recovery for IBM Power Systems servers. This Redbooks publication helps strengthen the position of the IBM PowerHA SystemMirror solution with a well-defined and documented best practices, usability, functionality, migration and deployment model within an IBM POWER® system virtualized environment allowing customers a planned foundation for business resilient infrastructure solutions. This Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing high availability solutions and support with the IBM PowerHA SystemMirror on IBM POWER.

This IBM® Redbooks® publication helps you install, tailor, and configure the new IBM PowerHA® SystemMirror® for AIX® 7.1.1 Standard Edition. This book gives an understanding of the Cluster Aware AIX (CAA). This book helps you design a solution to migrate from the previous version of the IBM PowerHA. This IBM Redbooks publication is targeted toward technical professionals (consultants,

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technical support staff, IT architects, and IT specialists) responsible for providing continuous availability solutions and support.

This IBM® Redbooks® publication provides best practices for planning, installing, maintaining, and monitoring the IBM PowerVM® Enterprise Edition virtualization features on IBM POWER7® processor technology-based servers. PowerVM is a combination of hardware, PowerVM Hypervisor, and software, which includes other virtualization features, such as the Virtual I/O Server. This publication is intended for experienced IT specialists and IT architects who want to learn about PowerVM best practices, and focuses on the following topics: Planning and general best practices Installation, migration, and configuration Administration and maintenance Storage and networking Performance monitoring Security PowerVM advanced features This publication is written by a group of seven PowerVM experts from different countries around the world. These experts came together to bring their broad IT skills, depth of knowledge, and experiences from thousands of installations and configurations in different IBM client sites.

Artificial Intelligence in Process Engineering aims to present a diverse sample of Artificial Intelligence (AI) applications in process engineering. The book contains contributions, selected by the editors based on educational value and diversity of AI methods and

process engineering application domains. Topics discussed in the text include the use of qualitative reasoning for modeling and simulation of chemical systems; the use of qualitative models in discrete event simulation to analyze malfunctions in processing systems; and the diagnosis of faults in processes that are controlled by Programmable Logic Controllers. There are also debates on the issue of quantitative versus qualitative information. The control of batch processes, a design of a system that synthesizes bioseparation processes, and process design in the domain of chemical (rather than biochemical) systems are likewise covered in the text. This publication will be of value to industrial engineers and process engineers and researchers. Extensively class-tested, this textbook takes an innovative approach to software testing: it defines testing as the process of applying a few well-defined, general-purpose test criteria to a structure or model of the software. It incorporates the latest innovations in testing, including techniques to test modern types of software such as OO, web applications, and embedded software. The book contains numerous examples throughout. An instructor's solution manual, PowerPoint slides, sample syllabi, additional examples and updates, testing tools for students, and example software programs in Java are available on an extensive website.

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.

This IBM® Redbooks® publication addresses topics to help answer customers' complex high availability requirements to help maximize systems availability and resources, and provide documentation to transfer the how-to-skills to the worldwide sales and support teams. This publication helps strengthen the position of the IBM PowerHA® SystemMirror® solution with a well-defined and documented deployment models within an IBM Power Systems™ virtualized environment, providing customers a planned foundation for business resilient infrastructure solutions. This book describes documentation, and other resources available to help the technical teams provide business resilience solutions and support with the IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power Systems. This publication targets technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing high availability solutions and support with IBM PowerHA SystemMirror Standard and Enterprise Editions on IBM Power

### Systems.

Automation in air traffic control may increase efficiency, but it also raises questions about adequate human control over automated systems. Following on the panel's first volume on air traffic control automation, *Flight to the Future* (NRC, 1997), this book focuses on the interaction of pilots and air traffic controllers, with a growing network of automated functions in the airspace system. The panel offers recommendations for development of human-centered automation, addressing key areas such as providing levels of automation that are appropriate to levels of risk, examining procedures for recovery from emergencies, free flight versus ground-based authority, and more. The book explores ways in which technology can build on human strengths and compensate for human vulnerabilities, minimizing both mistrust of automation and complacency about its abilities. The panel presents an overview of emerging technologies and trends toward automation within the national airspace system--in areas such as global positioning and other aspects of surveillance, flight information provided to pilots and controllers, collision avoidance, strategic long-term planning, and systems for training and maintenance. The book examines how to achieve better integration of research and development, including the importance of user involvement in air traffic control. It also

discusses how to harmonize the wide range of functions in the national airspace system, with a detailed review of the free flight initiative.

This IBM® Redbooks® publication positions the IBM PowerHA® SystemMirror® V6.1 for AIX® Enterprise Edition as the cluster management solution for high availability. This solution enables near-continuous application service and minimizes the impact of planned and unplanned outages. The primary goal of this high-availability solution is to recover operations at a remote location after a system or data center failure, establish or strengthen a business recovery plan, and provide separate recovery location. The IBM PowerHA SystemMirror Enterprise Edition is targeted at multisite high-availability disaster recovery. The objective of this book is to help new and existing PowerHA customers to understand how to plan to accomplish a successful installation and configuration of the PowerHA SystemMirror for AIX Enterprise Edition. This book emphasizes the IBM Power Systems™ strategy to deliver more advanced functional capabilities for business resiliency and to enhance product usability and robustness through deep integration with AIX, affiliated software stack, and storage technologies. PowerHA SystemMirror is designed, developed, integrated, tested, and supported by IBM from top to bottom.

This IBM Redbooks publication focuses on the technology, serviceability, and features that are used by the IBM eServer p5 and IBM System p5 servers, which allow you to make your server one of the most reliable and available parts of your IT infrastructure. This book explains how the server availability can be improved by:

- Proper planning of the server environment and configuration
- Understanding the role of the service processors and firmware components, and how they can be best configured and managed
- Using high availability

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and redundancy features provided by the AIX 5L operating system and the Virtual IO server This book contains many detailed examples and step-by-step scenarios of usual server operation and maintenance tasks, such as the setup of redundant HMC and service processors, firmware upgrades, hot-addition of RIO drawers, or configuration of redundant Virtual IO servers. This book is intended for architects, specialists, and system administrators who are responsible for planning or developing an availability strategy for IBM System p servers.

'The editors of this handbook have brought together 58 of the world's greatest environmental systems experts. These professionals have, in 46 specific topic headings, divided into six major sections, provided very insightful information and guidance as to what industrial ecology entails, how it can be implemented, and its benefits . . . a very valuable tool . . .

This book provides essential information to mid- and top-level management that can enable industry to make more prudent business decisions regarding the manufacturing of its products.' - Robert John Klancko, Environmental Practice  
Industrial ecology is coming of age and this superb book brings together leading scholars to present a state-of-the-art overviews of the subject.

This book presents the proceedings of CRIOCM\_2016, 21st International Conference on Advancement of Construction Management and Real Estate, sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with the University of Hong Kong. Written by international academics and professionals, the proceedings discuss the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real

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estate. Covering a wide range of topics, including building information modelling, big data, geographic information systems, housing policies, management of infrastructure projects, occupational health and safety, real estate finance and economics, urban planning, and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and the real estate market in China and abroad. The book is an outstanding reference resource for academics and professionals alike.

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