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GRANT CASON

Wireless Sensor Networks Pearson Education

This IBM® Redbooks® publication provides an introduction to PowerVM™ 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: 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.

IBM WebSphere DataPower SOA Appliance Handbook Max Hailperin

The increase in prevalence and visibility of sexually gender diverse (SGD) populations illuminates the need for greater understanding of the ways in which current laws, systems, and programs affect their well-being. Individuals who identify as lesbian, gay, bisexual, asexual, transgender, non-binary, queer, or intersex, as well as those who express same-sex or -gender attractions or behaviors, will have experiences across their life course that differ from those of cisgender and heterosexual individuals. Characteristics such as age, race and ethnicity, and geographic location intersect to play a distinct role in the challenges and opportunities SGD people face. Understanding the Well-Being of LGBTQI+ Populations reviews the available evidence and identifies future research needs related to the well-being of SGD populations across the life course. This report focuses on eight domains of well-being; the effects of various laws and the legal system on SGD populations; the effects of various public policies and structural stigma; community and civic engagement; families and social relationships; education, including school climate and level of attainment; economic experiences (e.g., employment, compensation, and housing); physical and mental health; and health care access and gender-affirming interventions. The recommendations of Understanding the Well-Being of LGBTQI+ Populations aim to identify opportunities to advance understanding of how individuals experience sexuality and gender and how sexual orientation, gender identity, and intersex status affect SGD people over the life course.

IBM Power E1080 Technical Overview and Introduction Packt Publishing Ltd

The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications,

architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on various platforms, and the IBM® System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM Redbooks® publication addresses the new IBM zEnterprise® System. This system consists of the IBM zEnterprise EC12 (zEC12), an updated IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension (zBX) Model 003. The zEC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers. It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75,000 millions of instructions per second (MIPS). The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 (z196) Model M80. The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management. It does so through an integrated hardware platform that spans mainframe, IBM POWER7®, and IBM System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This book provides information about the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z® technology and terminology.

Digital Roots IBM Redbooks

By using this innovative text, students will obtain an understanding of how contemporary operating systems and middleware work, and why they work that way.

IBM Spectrum Scale Security MIT Press

Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing with personal computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical environment. Hence, these kinds of systems are called embedded systems. Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems such as transportation and fabrication equipment. It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common

characteristics. For example, they must be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with an introduction into the area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems, like real-time operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms. Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book closes with a brief survey on testing. Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge of information processing hardware and software.

Courseware related to this book is available at <http://ls12-www.cs.tu-dortmund.de/~marwedel>.

Digital Transformation and Modernization with IBM API Connect
IBM Redbooks

This IBM® Redbooks® publication can help you develop content and process management applications with IBM FileNet® APIs. The IBM FileNet P8 suite of products contains a set of robust APIs that range from core platform APIs to supporting application APIs. This book focuses specifically on Content Engine and Process Engine APIs. Content Engine API topics that we discuss include creating, retrieving, updating, and deleting objects; querying and viewing documents; and batching and batch execution. We also explore more complex topics, including permissions and authorization, versioning, relationships, annotations, workflow subscriptions and event actions, metadata discovery, and dynamic security inheritance. Process Engine API topics that we discuss include launching a workflow, searching for and processing work items, and working with process status. The more complex topics we cover include, Component Integrator application space, role, workbasket, resource navigation in Process Engine REST API, ECM Widgets, and building a custom Get Next In-basket widget. To help you better understand programming with IBM FileNet APIs, we provide a sample application implemented for a fictional company. We include the data model, security model, workflows, and various applications developed for the sample. You can download them for your reference. This book is intended for IBM FileNet P8 application developers. We recommend using this book in conjunction with the online ECM help.

Digital Transformation and Modernization with IBM API Connect
Walter de Gruyter GmbH & Co KG

Save Time and Money: Streamline WebSphere Application Server Management with Jython Scripting! Utilizing Jython scripting, you can dramatically reduce the effort, resources, and expense associated with managing WebSphere Application Server. WebSphere Application Server Administration Using Jython will show you how. The first start-to-finish guide to Jython scripting for WebSphere administration, this book's practical techniques and downloadable scripts can help you improve efficiency, repeatability, and automation in any WebSphere environment. This book's expert authors begin with practical introductions to both WebSphere Application Server administration and Jython, today's powerful, Java implementation of Python. Next, they cover a broad spectrum of WebSphere management tasks and

techniques, presenting real, easy-to-adapt solutions for everything from server configuration and security to database management. These are powerful solutions you can begin using immediately—whether you're running WebSphere in production, development, or test environments. Coverage includes Mastering the Jython rules, characteristics, and properties that are most valuable in WebSphere scripting Viewing and manipulating WebSphere configuration and run-time details Making the most of the wsadmin scripting engine and objects—including rarely-used wsadmin parameters that can simplify administration Adjusting wsadmin properties to reflect your needs and environment Using the AdminApp scripting object to list, view, install, uninstall, and modify AppServer applications Using the AdminTask object to manipulate WebSphere Application Server at a high level Configuring the WebSphere Application Server with AdminConfig Manipulating active AppServer objects (MBeans) with AdminControl Controlling security, including aliases, roles, administrative and application security, and multiple security domains

The State of Open Data IBM Redbooks

It's been ten years since open data first broke onto the global stage. Over the past decade, thousands of programmes and projects around the world have worked to open data and use it to address a myriad of social and economic challenges. Meanwhile, issues related to data rights and privacy have moved to the centre of public and political discourse. As the open data movement enters a new phase in its evolution, shifting to target real-world problems and embed open data thinking into other existing or emerging communities of practice, big questions still remain. How will open data initiatives respond to new concerns about privacy, inclusion, and artificial intelligence? And what can we learn from the last decade in order to deliver impact where it is most needed? The State of Open Data brings together over 60 authors from around the world to address these questions and to take stock of the real progress made to date across sectors and around the world, uncovering the issues that will shape the future of open data in the years to come.

WebSphere Application Server V8: Administration and Configuration Guide IBM Press

This book is designed to introduce doctoral and graduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently used as a research text at universities on six continents and will shortly be available in nine different languages.

IBM WebSphere DataPower SOA Appliance Handbook John Wiley & Sons

In the investigation Exploring the Boundaries of Big Data The Netherlands Scientific Council for Government Policy (WRR) offers building blocks for developing a regulatory approach to Big Data.

SPSS Explained IBM Redbooks

Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology,

standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

IBM DataPower Handbook CreateSpace

This IBM® Redbooks® publication will help you to better understand the effective use of the WebSphere® DataPower® family of appliances. It provides guidance on the best methods identified to date for building the various components that implement solutions, such as handling MQ-based message flows or creating authentication and authorization policies. The information and recommendations in this publication are the result of real world experiences using the appliances. Such experience shows that taking the time to plan a solution implementation before beginning the work yields the greatest savings in time and energy and the highest quality outcome. This publication begins with a checklist of items to consider when planning a DataPower solution. This publication is intended to provide answers or guidance to implementation problems often encountered by users of the appliance. This book is not intended to present complete solutions or templates because experience shows that every customer uses the appliance in their own unique environment with unique requirements. Thus, this publication provides a compendium of information about particular aspects of a solution. Use the Table of Contents or Index to find your current issue, and return to this publication when the next issue or question arises. Refer to the related IBM Redbooks publication entitled DataPower SOA Appliance Administration, Deployment, and Best Practices, SG24-7901 for more information.

An Architectural and Practical Guide to IBM Hybrid Integration Platform Springer Science & Business Media

A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They

explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But *Data Feminism* is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

Data Feminism IBM Redbooks

This is Volume II of the long-awaited second edition of the 'bible' and expert guide to deploying, using, and managing IBM DataPower Gateway Appliances. It is updated for firmware version 7.2. DataPower appliances can simplify deployment, strengthen security, enhance performance, and dramatically improve return on investment for many use cases, such as mobile, Web, API, legacy, cloud, and SOA/Web Services. In this book, a team of leading experts show how to make the most of DataPower appliances in any IT environment. The authors present DataPower information and insights that are available nowhere else. Writing for working architects, administrators, developers, and security specialists, they draw extensively on their deep experience, helping IBM customers use DataPower technologies to solve challenging system integration problems. This volume concentrates on DataPower networking, and features chapters on beginning and advanced networking, as well as network-level availability.

Practical Web Penetration Testing IBM Redbooks

IBM® API Connect is an API management solution from IBM that offers capabilities to create, run, manage, and secure APIs and microservices. By using these capabilities, the full lifecycle of APIs for on-premises and cloud environments can be managed. This IBM Redpaper™ publication describes practical scenarios that show the API Connect capabilities for managing the full API life cycle, creating, running, securing, and managing the APIs. This Redpaper publication is targeted to users of an API Connect based API strategy, developers, IT architects, and technical evangelists. If you are not familiar with APIs or API Connect, we suggest that you read the Redpaper publication *Getting Started with IBM API Connect: Concepts, Architecture and Strategy Guide*, REDP-5349, before reading this publication.

IBM Datapower Handbook Volume III Springer Science & Business Media

This IBM® Redbooks® publication focuses on operational and managerial aspects for DataPower® appliance deployments. DataPower appliances provide functionality that crosses both functional and organizational boundaries, which introduces unique management and operational challenges. For example, a DataPower appliance can provide network functionality, such as load balancing, and at the same time, provide enterprise service bus (ESB) capabilities, such as transformation and intelligent content-based routing. This IBM Redbooks publication provides guidance at both a general and technical level for individuals who are responsible for planning, installation, development, and deployment. It is not intended to be a "how-to" guide, but rather to help educate you about the various options and methodologies that apply to DataPower appliances. In addition, many chapters provide a list of suggestions.

IBM Datapower Handbook Volume IV Pearson Education Expert Guide to Deploying, Using, and Managing DataPower SOA Appliances IBM® WebSphere® DataPower® appliances can simplify SOA deployment, strengthen SOA security, enhance SOA performance, and dramatically improve SOA return on

investment. In this book, a team of IBM's leading experts show how to make the most of DataPower SOA appliances in any IT environment. The authors present IBM DataPower information and insights that are available nowhere else. Writing for working architects, administrators, and security specialists, they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems. IBM WebSphere DataPower SOA Appliance Handbook begins by introducing the rationale for SOA appliances and explaining how DataPower appliances work from network, security, and Enterprise Service Bus perspectives. Next, the authors walk through DataPower installation and configuration; then they present deep detail on DataPower's role and use as a network device. Using many real-world examples, the authors systematically introduce the services available on DataPower devices, especially the "big three": XML Firewall, Web Service Proxy, and Multi-Protocol Gateway. They also present thorough and practical guidance on day-to-day DataPower management, including, monitoring, configuration build and deploy techniques. Coverage includes - Configuring DataPower's network interfaces for common scenarios - Implementing DataPower deployment patterns for security gateway, ESB, and Web service management applications - Proxying Web applications with DataPower - Systematically addressing the security vulnerabilities associated with Web services and XML - Integrating security with WebSphere Application Server - Mastering DataPower XSLT custom programming - Troubleshooting using both built-in and external tools

Getting Started with IBM API Connect: Scenarios Guide Routledge

This is the fourth volume of the DataPower Handbook 2nd Edition. We have brought together four of the most respected IBM B2B experts, who provide a wealth of information on how the DataPower B2B module can be used for B2B data exchange and as an effective file transfer solution. This volume also can be used to learn how to use the DataPower Integration Module to exchange raw files, without the B2B module. DataPower appliances can simplify deployment, strengthen security, enhance performance, and dramatically improve return on

investment for many use cases, such as mobile, Web, API, legacy, cloud, B2B, and SOA/Web Services. The authors present DataPower B2B information and insights that are available nowhere else. Writing for working architects, administrators, developers, and security specialists, they draw extensively on their deep experience, helping IBM customers use DataPower technologies to solve challenging B2B and file transfer problems. The Handbook begins by discussing the relevance of B2B technologies in today's API-driven world. It reviews a history of B2B technologies and security, and then dives into a comprehensive overview of IBM DataPower B2B objects and configuration. Trading partner transaction visibility is covered, as well as a comprehensive overview of AS1, AS2, AS3, and ebMS V2.0 messaging patterns. An in-depth chapter covers file transfer, using either the DataPower B2B or Integration modules. DataPower and OpenPGP integration is covered in its own chapter, and the book concludes with a chapter covering DataPower B2B integration with IBM Sterling B2B and other IBM integration products. Additional DataPower Handbook volumes dive-deep into DataPower introduction and setup (Volume I), network configuration (Volume II), and development (Volume III). **IBM zEnterprise EC12 Technical Guide** Packt Publishing Ltd

Web Applications are the core of any business today, and the need for specialized Application Security experts is increasing these days. Using this book, you will be able to learn Application Security testing and understand how to analyze a web application, conduct a web intrusion test, and a network infrastructure test.

Integration Throughout and Beyond the Enterprise Pearson Education

SysML Distilled is a go-to reference for everyone who wants to start creating accurate and useful system models with SysML. Drawing on his pioneering experience creating models for Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components, and shows how to use them even under tight deadlines and other constraints. The reader needn't know all of SysML to create effective models: SysML Distilled quickly teaches what does need to be known, and helps deepen the reader's knowledge incrementally as the need arises.