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First Steps in SAP FI Configuration Segment Reporting with Document Splitting in the SAP General Ledger Guide to IBM PowerHA SystemMirror for AIX Version 7.1.3 Term Rewriting Systems A Definitive Guide to Apache ShardingSphere Chemical Micro Process Engineering Semantic Web Services Challenge MCSA Windows Server 2016 Certification Guide: Exam 70-741 Numerical Methods for Non-Newtonian Fluids Numerical Methods for Non-Newtonian Fluids Configuration of Multiple-variant Products 30th European Symposium on Computer Aided Chemical Engineering Enterprise, Business-Process and Information Systems Modeling First Steps in SAP S/4HANA Finance Proceedings of Second Asian Symposium on Cellular Automata Technology Cisco ASA Foundations of Software Science and Computation Structures The Policy Driven Data Center with ACI Recent Developments in Functional Materials for Artificial Photosynthesis The Physics of Metals and Metallography Windows Server 2008 Administrator's Pocket Consultant Parallel and Distributed Computational Intelligence Conceptual Aircraft Design SOLIDWORKS 2022 Intermediate Skills Proceedings of 4th International Conference on Frontiers in Computing and Systems Windows Server 2008 R2 Unleashed On Solar Hydrogen and Nanotechnology Model Checking Software Building Machine Learning Pipelines EMG/EEG Signals-based Control of Assistive and Rehabilitation Robots Autonomous Dynamic Reconfiguration in Multi-Agent Systems IBM PowerHA SystemMirror V7.2.3 for IBM AIX and V7.22 for Linux Biological and Robotic Inter-Limb Coordination Model Checking Software Time-Varying Image Processing and Moving Object Recognition Oracle Goldengate 11g Complete Cookbook Perspectives of System Informatics Oracle to DB2 Conversion Guide: Compatibility Made Easy 70-412 Configuring Advanced Windows Server 2012 Services R2 The Essence of Computation

This IBM® Redbooks® publication helps strengthen the position of the IBM PowerHA® SystemMirror® for Linux solution with well-defined and documented deployment models within an IBM Power Systems™ environment, which provides customers a planned foundation for business resilience and disaster recovery (DR) for their IBM Power Systems infrastructure solutions. This book addresses topics to help answer customers' complex high availability (HA) and DR requirements for IBM AIX® and Linux on IBM Power Systems servers to help maximize system availability and resources and provide technical documentation to transfer the how-to-skills to users and support teams. This publication is targeted at technical professionals (consultants, technical support staff, IT architects, and IT specialists) who are responsible for providing HA and DR solutions and support for IBM PowerHA SystemMirror for AIX and Linux Standard and Enterprise Editions on IBM Power Systems servers. This book constitutes the refereed proceedings of the 15th International SPIN workshop on Model Checking Software, SPIN 2008, held in Los Angeles, CA, USA, in August 2008. The 17 revised full papers presented together with 1 tool paper and 4 invited talks were carefully reviewed and selected from 41 submissions. The main focus of the workshop series is software systems, including models and programs. The papers cover theoretical and algorithmic foundations as well as tools for software model checking and foster interactions and exchanges of ideas with related areas in software engineering, such as static analysis, dynamic analysis, and testing. 30th European Symposium on Computer Aided Chemical Engineering, Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Milan, Italy, May 24-27, 2020. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event Offers a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features. The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQLPlus, and more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now provides tools to simplify the enablement process, such as the highly scalable IBM Data Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are implemented at the lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function. Companies are spending billions on machine learning projects, but it's money wasted if the models can't be deployed effectively. In this practical guide, Hannes Hapke and Catherine Nelson walk you through the steps of automating a machine learning pipeline using the TensorFlow ecosystem. You'll learn the techniques and tools that will cut deployment time from days to minutes, so that you can focus on developing new models rather than maintaining legacy systems. Data scientists, machine learning engineers, and DevOps engineers will discover how to go beyond model development to successfully productize their data science projects, while managers will better understand the role they play in helping to accelerate these projects. Understand the steps to build a machine learning pipeline Build your pipeline using components from TensorFlow Extended Orchestrate your machine learning pipeline with Apache Beam, Apache Airflow, and KubeFlow Pipelines Work with data using TensorFlow Data Validation and TensorFlow Transform Analyze a model in detail using TensorFlow Model Analysis Examine fairness and bias in your model performance Deploy models with TensorFlow Serving or TensorFlow Lite for mobile devices Learn privacy-preserving machine learning techniques SAP's latest product, SAP S/4HANA, is revolutionizing how we approach finance by re-architecting data persistency and by merging accounts and cost elements. This book offers a fundamental introduction to SAP S/4HANA Finance, explaining how Accounting and Controlling have merged, and how they integrate with planning and group reporting. Learn about the new con-figuration options, updated data models, and what this means for reporting in the future. Obtain a first-hand look at the new user interfaces in SAP Fiori. Review the new universal journal, asset accounting, material ledger, and margin analysis functionality. Examine the steps required to migrate to SAP S/4HANA Finance and walk through the deployment options. Explore the new possibilities for reporting and analysis. Learn how to set up roles and business catalogs to provide users with access to the Fiori applications, and gain an understanding of the various types of applications. By using practical examples, tips, and screenshots, this book helps readers to: - Understand the basics of SAP S/4HANA Finance - Explore the new architecture, updated configuration options, and SAP Fiori - Examine SAP S/4HANA Finance migration steps - Understand alternative deployment options, such as a central finance deployment Handbook of Numerical Methods for Hyperbolic Problems explores the changes that have taken place in the past few decades regarding literature in the design, analysis and application of various numerical algorithms for solving hyperbolic equations. This volume provides concise summaries from experts in different types of algorithms, so that readers can find a variety of algorithms under different situations and readily understand their relative advantages and limitations. This book provides comprehensive, step-by-step configuration information for using Document Splitting and Balanced Segment Reporting in the SAP General Ledger. It provides implementation team members, functional finance professionals, and line-of-business managers with the implementation strategies, configuration steps, and best practices necessary to implement Document Splitting in the SAP General Ledger. Specific sections of the book focus on defining segments for use with

common lines of business, configuration steps for Document Splitting, configuration of Segment Reporting, and managing a migration from the Classic General Ledger to the SAP General Ledger when Document Splitting is involved. Readers learn how to configure Document Splitting for the SAP General Ledger, including Standard and Extended Document Splitting and will quickly come to understand the common Business Transactions and how they relate to Segment Reporting and Document Splitting, including Vendor Invoice, Vendor Payment, and other financial transactions. Plus, find out how the new Segment object works in the SAP General Ledger, including how Segments are derived from Profit Centers. The author explains how best to use Profitability Reporting, Segment Reporting, and built-in tools like Report Writer and Report Painter in the SAP General Ledger and shows you how you can develop and execute a plan for migrating successfully to the SAP General Ledger using the SAP Migration Service. Now updated for Windows Server 2008 R2, this practical, portable guide delivers ready answers for the day-to-day administration of Windows Server 2008. It includes coverage of Windows Server 2008 R2 enhancements, including Hyper-V with Live Migration, Direct Access Infrastructure, Branch Cache, Windows PowerShell 2.0, the new Active Directory console, and more. Zero in on core support and administration tasks using quick-reference tables, instructions, and lists. You'll get the focused information you need to solve problems and get the job done whether at your desk or in the field! Get fast facts to: Set up server roles and deploy Windows Server 2008 Configure and maintain Active Directory Create user and group accounts; control rights and permissions Manage file systems, drives, and RAID arrays Configure TCP/IP networking and DHCP and DNS clients and servers Troubleshoot printers and print servers Monitor and tune network performance Prepare a disaster plan; back up and restore servers A comprehensive certification guide that will help you prepare for the exam from day one of your preparation journey Key Features Get well-versed with the nitty-gritty of Windows server 2016 A practical guide towards installing, upgrading, and migrating to Windows Server 2016 Enhance your skills with practice questions and mock tests Book Description MCSA: Windows Server 2016 is one of the most sought-after certifications for IT professionals which include working with Windows Server and performing administrative tasks around it. It targets Exam 70-740, Exam 70-741, Exam 70-742 and Exam 70-743 certifications and the demand for these certifications is increasingly high. This book will start with installation, upgrade and migration to Windows Server 2016, cover imaging and deployment and proceed with High Availability and Clustering. Then we will deep dive into fundamental concepts like Core networking, DNS, DHCP, Storage and proceed to Hyper-V, Network Access and Distributed File System. It will also explain Advanced Networking topics such as Software Defined Networking and High-Performance Networking. Furthermore, it will also cover advanced Identity topics in Windows Server 2016 such as Active Directory installation and configuration, Group Policy, Active Directory Certificate Services, and Active Directory Federation Services and Rights Management. Towards the end of this book, test questions and mock preparation items will help in preparing for the certifications with more ease. By the end of this book, you will be able to complete MCSA: Windows Server 2016 certification with more confidence. What you will learn Prepare for exam 70-741 Networking with Windows Server 2016 Learn to apply the technology to real-world examples Learn core networking, name resolution and connectivity technologies in Windows Server 2016. Get prepared for exam 70-742 Identity with Windows Server 2016 Get ways to clear the exam 70-743 Upgrading Your Skills to MCSA: Windows Server 2016 Practice critical skills and test your knowledge of the objectives of all three MCSA exams Who this book is for This book is targeted towards system administrators or windows server administrators who are interested in clearing the MCSA certification with ease. Oracle Goldengate 11g Complete Cookbook follows the Cookbook style. Each recipe provides step by step instructions with various examples and scripts. This book provides the necessary information to successfully complete most of the possible administration tasks. Oracle Goldengate 11g Complete Cookbook is aimed at Database Administrators, Architects, and Middleware Administrators who are keen to know more about Oracle Goldengate. Whether you are handling Goldengate environments on a day-to-day basis, or using it just for migration, this book provides the necessary information required to successfully complete your administration tasks. The reader is expected to have some knowledge of Oracle databases. Artificial photosynthesis is the process of converting solar energy into useful fuels and represents a significant achievement in the production of clean energy for the planet. In the process, energy is generated from water and CO₂ reduction using solar-powered photocatalysis. This book provides a comprehensive overview of recently developed, multifunctional materials as visible light-driven catalysts, their mechanisms and applications in solar energy utilisation and conversion. Chapters highlight the use of different approaches such as molecular catalysis, nanomaterials systems, as well as thin-films for solar-driven evolution of renewable fuels, such as hydrogen. This is the first book to give an overview of this area, with chapters specifically interesting for those looking towards industrial applications. With in-depth discussions ranging from understanding, to engineering of materials and applied devices, it will be suitable for industry professionals, researchers and students interested in understanding of the current state of photocatalysis research and its possible applications in the energy domain. This 70-412 Configuring Advanced Windows Server 2012 R2 Services textbook covers the third of three exams required for Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 certification. This course will help validate the skills and knowledge necessary to administer a Windows Server 2012 Infrastructure in an enterprise environment. The three MCSA exams collectively validate the skills and knowledge necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment. This Microsoft Official Academic Course is mapped to the 70-412 Configuring Advanced Windows Server 2012 Services exam skills, including the recent R2 objectives. This textbook focuses on real skills for real jobs and prepares students to prove mastery of Advanced Windows Server 2012 Services such as advanced configuring tasks necessary to deploy, manage, and maintain a Windows Server 2012 infrastructure. It covers such skills as fault tolerance, certificate services, and identity federation. In addition, this book also covers such valuable skills as:

- Implementing Advanced Network Services
- Implementing Advanced File Services
- Implementing Dynamic Access Control
- Implementing Network Load Balancing
- Implementing Failover Clustering
- Implementing Disaster Recovery
- Implementing Active Directory Certificate Services (AD CS)
- Implementing Active Directory Federation Services (AD FS)

The MOAC IT Professional series is the Official from Microsoft, turn-key Workforce training program that leads to professional certification and was authored for college instructors and college students. MOAC gets instructors ready to teach and students ready for work by delivering essential resources in 5 key areas: Instructor readiness, student software, student assessment, instruction resources, and learning validation. With the Microsoft Official Academic course program, you are getting instructional support from Microsoft; materials that are accurate and make course delivery easy. Micro process engineering is approaching both academia and industry. With the provision of micro devices, systems and whole plants by commercial suppliers, one main barrier for using these units has been eliminated. This book focuses on processes and their plants rather than on devices: what is 'before', 'behind' and 'around' micro device fabrication - and gives a comprehensive and detailed overview on the micro-reactor plants and three topic-class applications which are mixing, fuel processing, and catalyst screening. Thus, the book reflects the current level of development from 'micro-reactor design' to 'micro-reactor process design'. This book contains the thoroughly refereed papers from the 9th International Ershov Informatics Conference, PSI 2014, held in St. Petersburg, Russia, in June 2014. The 17 revised full papers, 11 revised short papers, and 2 system and experimental papers presented in this book were carefully reviewed and selected from 80 submissions. The volume also contains 5 keynote talks which cover a range of hot topics in computer science and informatics. The papers cover various topics related to the foundations of program and system development and analysis, programming methodology and software engineering and information technologies. This book gathers selected research papers presented at the Second Asian Symposium on Cellular Automata Technology (ASCAT 2023), organized by academicians from Kolkata at Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, India, and by researchers of Cellular Automata India, a research group which was created during the pandemic, during March 2-4, 2023. The book presents one of the most emergent areas in natural computing, cellular automaton (CA). CA is a paradigm of uniform fine-grained parallel computation which has been explored to understand complex systems by developing its model at the microscopic level. The book discusses many real-life problems in the domain of pattern recognition and classification, clustering, electronic circuit design, bioinformatics, material and mining engineering, modelling of physical and social systems, etc., by using CA. High communication efforts and poor problem solving results due to restricted overview are two central issues in collaborative problem solving. This work addresses these issues by introducing the processes of agent melting and agent splitting that enable individual problem solving agents to continually and autonomously reconfigure and adapt themselves to the particular problem to be solved. The author provides a sound theoretical foundation of collaborative problem solving itself and introduces various

new design concepts and techniques to improve its quality and efficiency, such as the multi-phase agreement finding protocol for external problem solving, the composable belief-desire-intention agent architecture, and the distribution-aware constraint specification architecture for internal problem solving. The practical relevance and applicability of the concepts and techniques provided are demonstrated by using medical appointment scheduling as a case study. SOLIDWORKS 2022 Intermediate Skills is part of a three part series which builds on the SOLIDWORKS features learned in SOLIDWORKS 2022 Basic Tools. SOLIDWORKS 2022 Intermediate Skills broadens your SOLIDWORKS knowledge base by covering such features as surveys, lofts and boundaries, the use of multibodies, generating engineering drawings and other SOLIDWORKS functions that are critical for the effective use of this powerful software. This book helps prepare you for the advanced features of SOLIDWORKS which are covered in SOLIDWORKS Advanced Techniques. It uses a step by step tutorial approach with real world projects. This book also features a Quick-Reference-Guide to the SOLIDWORKS 2022 commands, icons, and customized hotkeys. Who's this book for? This book is for the mid-level user, who is already familiar with the SOLIDWORKS program. It is also a great resource for the more CAD literate individuals who want to expand their knowledge of the different features that SOLIDWORKS 2022 has to offer. Non-Newtonian flows and their numerical simulations have generated an abundant literature, as well as many publications and references to which can be found in this volume's articles. This abundance of publications can be explained by the fact that non-Newtonian fluids occur in many real life situations: the food industry, oil & gas industry, chemical, civil and mechanical engineering, the bio-Sciences, to name just a few. Mathematical and numerical analysis of non-Newtonian fluid flow models provide challenging problems to partial differential equations specialists and applied computational mathematicians alike. This volume offers investigations. Results and conclusions that will no doubt be useful to engineers and computational and applied mathematicians who are focused on various aspects of non-Newtonian Fluid Mechanics. New review of well-known computational methods for the simulation viscoelastic and viscoplastic types.; Discusses new numerical methods that have proven to be more efficient and more accurate than traditional methods.; Articles that discuss the numerical simulation of particulate flow for viscoelastic fluids.; More energy from the sun strikes Earth in an hour than is consumed by humans in an entire year. Efficiently harnessing solar power for sustainable generation of hydrogen requires low-cost, purpose-built, functional materials combined with inexpensive large-scale manufacturing methods. These issues are comprehensively addressed in On Solar Hydrogen & Nanotechnology - an authoritative, interdisciplinary source of fundamental and applied knowledge in all areas related to solar hydrogen. Written by leading experts, the book emphasizes state-of-the-art materials and characterization techniques as well as the impact of nanotechnology on this cutting edge field. Addresses the current status and prospects of solar hydrogen, including major achievements, performance benchmarks, technological limitations, and crucial remaining challenges Covers the latest advances in fundamental understanding and development in photocatalytic reactions, semiconductor nanostructures and heterostructures, quantum confinement effects, device fabrication, modeling, simulation, and characterization techniques as they pertain to solar generation of hydrogen Assesses and establishes the present and future role of solar hydrogen in the hydrogen economy Contains numerous graphics to illustrate concepts, techniques, and research results On Solar Hydrogen & Nanotechnology is an essential reference for materials scientists, physical and inorganic chemists, electrochemists, physicists, and engineers carrying out research on solar energy, photocatalysis, or semiconducting nanomaterials, both in academia and industry. It is also an invaluable resource for graduate students and postdoctoral researchers as well as business professionals and consultants with an interest in renewable energy. This book constitutes the refereed proceedings of the 16th International SPIN workshop on Model Checking Software, SPIN 2009, held in Grenoble, France, in June 2009. The 15 revised full papers presented together with 3 tool papers and 4 invited talks were carefully reviewed and selected from 41 submissions. The papers cover theoretical and algorithmic foundations as well as tools for software model checking by addressing theoretical advances and empirical evaluations related to state-space and path exploration techniques, as implemented in software verification tools. Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design, placing great emphasis on industrial practice. It includes worked out design examples for several different classes of aircraft, including Learjet 45, Tucano Turboprop Trainer, BAe Hawk and Airbus A320. It considers performance substantiation and compliance to certification requirements and market specifications of take-off/landing field lengths, initial climb/high speed cruise, turning capability and payload/range. Military requirements are discussed, covering some aspects of combat, as is operating cost estimation methodology, safety considerations, environmental issues, flight deck layout, avionics and more general aircraft systems. The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses. Split into two parts, Conceptual Aircraft Design: An Industrial Approach spends the first part dealing with the pre-requisite information for configuring aircraft so that readers can make informed decisions when designing vessels. The second part devotes itself to new aircraft concept definition. It also offers additional analyses and design information (e.g., on cost, manufacture, systems, role of CFD, etc.) integral to conceptual design study. The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study. Presents an informative, industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45, Tucano Turboprop Trainer, BAe Hawk, Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design: An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial, military, and private use. This book contains the refereed proceedings of the 12th International Conference on Business Process Modeling, Development and Support (BPMDS 2011) and the 16th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2011), held together with the 23rd International Conference on Advanced Information Systems Engineering (CAiSE 2011) in London, UK, in June 2011. The 22 papers accepted for BPMDS were selected from 61 submissions and cover a wide spectrum of issues related to business processes development, modeling, and support. They are grouped into sections on BPMDS in practice, business process improvement, business process flexibility, declarative process models, variety of modeling paradigms, business process modeling and support systems development, and interoperability and mobility. The 16 papers accepted for EMMSAD were chosen from 31 submissions and focus on exploring, evaluating, and enhancing current information modeling methods and methodologies. They are grouped in sections on workflow and process modeling extensions, requirements analysis and information systems development, requirements evolution and information systems evolution, data modeling languages and business rules, conceptual modeling practice, and enterprise architecture. This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. For organizations of all sizes, the Cisco ASA product family offers powerful new tools for maximizing network security. Cisco ASA: All-in-One Firewall, IPS, Anti-X and VPN Adaptive Security Appliance, Second Edition, is Cisco's authoritative practitioner's guide to planning, deploying, managing, and troubleshooting security with Cisco ASA. Written by two leading Cisco security experts, this book presents each Cisco ASA solution in depth, offering comprehensive sample configurations, proven troubleshooting methodologies, and debugging examples. Readers will learn about the Cisco ASA Firewall solution and capabilities; secure configuration and troubleshooting of site-to-site and remote access VPNs; Intrusion Prevention System features built into Cisco ASA's Advanced Inspection and Prevention Security Services Module (AIP-SSM); and Anti-X features in the ASA Content Security and Control Security Services Module (CSC-SSM). This new edition has been updated with detailed information on the latest ASA models and features. Everything network professionals need to know to identify, mitigate, and respond to network attacks with Cisco ASA Includes detailed configuration examples, with screenshots and command line references Covers the ASA 8.2 release Presents complete troubleshooting methodologies and architectural references This book offers a comprehensive introduction to the fundamentals of SAP ERP Financials (FI) configuration. Dive into configuration details for general ledger (FI-GL), accounts receivable (FI-AR), and accounts payable (FI-AP) transactions. You'll learn about the primary features and functions of SAP FI configuration including how to create company codes and chart of accounts, assign a controlling area, and define number ranges. Get tips for automatic posting rules and posting periods. Gain proficiency navigating in SAP FI, including how to access configuration transactions. Walk through step-by-step instructions for executing transport request configuration. Get exposure to advanced SAP FI configuration topics including SAP tables, SE11, SE16N, and SQVI. This introductory guide to SAP FI configuration covers: - Get an overview of SAP Financials configuration - Explore fundamental aspects of FI-GL, FI-AR, and FI-AP configuration - Learn how to create, define, and assign

company codes and chart of accounts - Obtain hands-on instruction based on examples and screenshots Term rewriting systems developed out of mathematical logic and are an important part of theoretical computer science. They consist of sequences of discrete transformation steps where one term is replaced with another and have applications in many areas, from functional programming to automatic theorem proving and computer algebra. This 2003 book starts at an elementary level with the earlier chapters providing a foundation for the rest of the work. Much of the advanced material appeared here for the first time in book form. Subjects treated include orthogonality, termination, completion, lambda calculus, higher-order rewriting, infinitary rewriting and term graph rewriting. Many exercises are included with selected solutions provided on the web. A comprehensive bibliography makes this book ideal both for teaching and research. A chapter is included presenting applications of term rewriting systems, with many pointers to actual implementations. 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. This is an edited volume that develops a common understanding of the various technologies intended to facilitate the automation of mediation, choreography and discovery for Web Services using semantic annotations. The volume explores trade-offs among existing approaches, and reveals strengths and weaknesses of proposed approaches, as well as which aspects of the problem are not yet covered. The book is designed for a professional audience composed of practitioners and researchers in industry. Professionals can use it to evaluate SWS technology for their potential practical use. The book is also suitable for advanced-level students in computer science. In the area of Digital Image Processing the new area of "Time-Varying Image Processing and Moving Object Recognition" is contributing to impressive advances in several fields. Presented in this volume are new digital image processing and recognition methods, implementation techniques and advanced applications such as television, remote sensing, biomedicine, traffic, inspection, and robotics. New approaches (such as digital transforms, neural networks) for solving 2-D and 3-D problems are described. Many papers concentrate on motion estimation and recognition i.e. tracking of moving objects. Overall, the book describes the state-of-the-art (theory, implementation, applications) of this developing area, together with future trends. The work will be of interest not only to researchers, professors and students in university departments of engineering, communications, computers and automatic control, but also to engineers and managers of industries concerned with computer vision, manufacturing, automation, robotics and quality control. Windows Server 2008 R2 Unleashed is the most comprehensive and realistic guide to planning, design, prototyping, implementation, migration, administration, and support. Based on the authors' unsurpassed experience working with Windows Server 2008 R2 since its earliest alpha releases, it offers indispensable guidance drawn from hundreds of production environments. Microsoft MVP Rand Morimoto and his colleagues systematically introduce Windows Server 2008 R2 to IT professionals, identifying R2's most crucial enhancements and walking through every step of installation and configuration. Next, they present comprehensive coverage of every area of Windows Server 2008 R2, including Active Directory, networking services, security, R2 migration from Windows Server 2003 and 2008, administration, fault tolerance, optimization and troubleshooting, core application services, and more. The authors thoroughly address major Windows Server 2008 R2 enhancements and present extensive coverage of R2 innovations ranging from Hyper-V virtualization to DirectAccess and the enhancements in Failover Clustering. Every chapter contains tips, tricks, and best practices learned from actual deployments: practical information for using Windows Server 2008 R2 to solve real business problems. Detailed information on how to... Plan and migrate from Windows Server 2003/2008 to Windows Server 2008 R2 and use R2's new server migration tools Manage Active Directory with Active Directory Administrative Center, Best Practice Analyzer, and PowerShell scripts Use R2's updated security tools and templates to lock down servers, clients, and networks Maximize availability with Windows Server 2008 R2 clustering, fault tolerance, and replication Streamline client management with new Group Policy ADMX settings and management tools Improve remote access using DirectAccess, Remote Desktop Services (formerly Terminal Services), and Virtual Desktop Infrastructure Implement Hyper-V virtualization including the built-in Live Migration technology Leverage add-ons such as Windows SharePoint Services, Windows Media Services, and IIS 7.5 Become well versed with all of ShardingSphere's features for every data management need with this comprehensive guide put together by ShardingSphere's founder and core contributors Key Features • Understand the core concepts and efficiently set up Apache ShardingSphere • Enhance existing databases with sharding, elastic scaling, encryption, governance features, and more • Import and customize the ecosystem's core features for various application scenarios Book Description Apache ShardingSphere is a new open source ecosystem for distributed data infrastructures based on pluggability and cloud-native principles that helps enhance your database. This book begins with a quick overview of the main challenges faced by database management systems (DBMSs) in production environments, followed by a brief introduction to the software's kernel concept. After that, using real-world examples of distributed database solutions, elastic scaling, DistSQL, synthetic monitoring, database gateways, and SQL authority and user authentication, you'll fully understand ShardingSphere's architectural components, how they're configured and can be plugged into your existing infrastructure, and how to manage your data and applications. You'll also explore ShardingSphere-JDBC and ShardingSphere-Proxy, the ecosystem's clients, and how they can work either concurrently or independently to address your needs. You'll then learn how to customize the plugin platform to define personalized user strategies and manage multiple configurations seamlessly. Finally, the book enables you to get up and running with functional and performance tests for all scenarios. By the end of this book, you'll be able to build and deploy a customized version of ShardingSphere, addressing the key pain points encountered in your data management infrastructure. What you will learn • Assemble a custom solution using the software's pluggable architecture • Discover how to use Database Plus features effectively • Understand the difference between ShardingSphere-JDBC and ShardingSphere-Proxy • Get to grips with ShardingSphere's pluggability mechanism • Explore mainstream test models for databases and distributed databases • Perform migrations from an on-premise database to a cloud-based database • Reconfigure your data infrastructure and eliminate switching costs Who this book is for This book is for database administrators working with distributed database solutions who are looking to explore the capabilities of Apache ShardingSphere. DBAs looking for more capable, flexible, and cost-effective alternatives to the solutions they're currently utilizing will also find this book helpful. To get started with this book, a basic understanding of, or even an interest in, databases, relational databases, SQL languages, cloud computing, and data management in general is needed. Commemorates the 60th birthday of Neil D. Jones. Use policies and Cisco® ACI to make data centers more flexible and configurable--and deliver far more business value Using the policy driven data center approach, networking professionals can accelerate and simplify changes to the data center, construction of cloud infrastructure, and delivery of new applications. As you improve data center flexibility, agility, and portability, you can deliver far more business value, far more rapidly. In this guide, Cisco data center experts Lucien Avramov and Maurizio Portolani show how to achieve all these benefits with Cisco Application Centric Infrastructure (ACI) and technologies such as python, REST, and OpenStack. The authors explain the advantages, architecture, theory, concepts, and methodology of the policy driven data center. Next, they demonstrate the use of python scripts and REST to automate network management and simplify customization in ACI environments. Drawing on experience deploying ACI in enterprise data centers, the authors review design considerations and implementation methodologies. You will find design considerations for virtualized datacenters, high performance computing, ultra-low latency environments, and large-scale data centers. The authors walk through building multi-hypervisor and bare-metal infrastructures, demonstrate service integration, and introduce advanced telemetry capabilities for troubleshooting. Leverage the architectural and management innovations built into Cisco® Application Centric Infrastructure (ACI) Understand the policy driven data center model Use policies to meet the network performance and design requirements of modern data center and cloud environments Quickly map hardware and software capabilities to application deployments using graphical tools--or programmatically, via the Cisco APIC API Increase application velocity: reduce the time needed to move applications into production Define workload connectivity instead of (or along with) subnets, VLAN stitching, and ACLs Use Python scripts and REST to automate policy changes, parsing, customization, and self-service Design policy-driven data centers that support hypervisors Integrate OpenStack via the Cisco ACI APIC OpenStack driver architecture Master all facets of building and operating multipurpose cloud architectures with ACI Configure ACI fabric topology as an infrastructure or tenant

administrator Insert Layer 4-Layer 7 functions using service graphs Leverage centralized telemetry to optimize performance; find and resolve problems Understand and familiarize yourself with the paradigms of programmable policy driven networks Offering a global snapshot of parallel and distributed computational intelligence today, this volume covers ongoing issues as well as recent exploratory work. Topics discussed include GPUs, Clusters, Grids, volunteer computing, p2p networks and more.

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