

Ibm System X3650 M4 Type 7915 Installation Guide And User

Organizations of all sizes are faced with the challenge of managing massive volumes of increasingly valuable data. However, storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources, but must stay responsive to dynamic environments and act quickly to consolidate, simplify, and optimize their IT infrastructures. The IBM® Storwize® V3700 system provides a solution that is affordable, easy to use, and self-optimizing, which enables organizations to overcome these storage challenges. Storwize V3700 delivers efficient, entry-level configurations that are specifically designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, Storwize V3700 offers advanced software capabilities that are usually found in more expensive systems. Built on innovative IBM technology, Storwize V3700 addresses the block storage requirements of small and midsize organizations, Storwize V3700 is designed to accommodate the most common storage network technologies. This design enables easy implementation and management. Storwize V3700 includes the following features: Web-based GUI provides point-and-click management capabilities. Internal disk storage virtualization enables rapid, flexible provisioning and simple configuration changes. Thin provisioning enables applications to grow dynamically, but only use space they actually need. Enables simple data migration from external storage to Storwize V3700 storage (one-way from another storage device). Remote Mirror creates copies of data at remote locations for disaster recovery. IBM FlashCopy®

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creates instant application copies for backup or application testing. This IBM Redbooks® publication is intended for pre-sales and post-sales technical support professionals and storage administrators. The concepts in this book also relate to the IBM Storwize V3500. This book was written at a software level of version 7 release 4.

Corporate workgroups, distributed enterprises, and small to medium-sized companies are increasingly seeking to network and consolidate storage to improve availability, share information, reduce costs, and protect and secure information. These organizations require enterprise-class solutions capable of addressing immediate storage needs cost-effectively, while providing an upgrade path for future requirements. IBM® System Storage® N series storage systems and their software capabilities are designed to meet these requirements. IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM Redbooks® publication explains the software features of the IBM System Storage N series storage systems. This book also covers topics such as installation, setup, and administration of those software features from the

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IBM System Storage N series storage systems and clients and provides example scenarios.

This IBM® Redbooks® publication provides both introductory information and technical details about the IBM System z® Personal Development Tool (IBM zPDT®), which produces a small System z environment suitable for application development. zPDT is a PC Linux application. When zPDT is installed (on Linux), normal System z operating systems (such as IBM z/OS®) can be run on it. zPDT provides the basic System z architecture and emulated IBM 3390 disk drives, 3270 interfaces, OSA interfaces, and so on. The systems that are discussed in this document are complex. They have elements of Linux (for the underlying PC machine), IBM z/Architecture® (for the core zPDT elements), System z I/O functions (for emulated I/O devices), z/OS (the most common System z operating system), and various applications and subsystems under z/OS. The reader is assumed to be familiar with general concepts and terminology of System z hardware and software elements, and with basic PC Linux characteristics. This book provides the primary documentation for zPDT.

The IBM® System Storage® Solutions Handbook helps you solve your current and future data storage business requirements. It helps you achieve enhanced storage efficiency by design to allow managed cost, capacity of growth, greater mobility, and stronger control over storage performance and management. It describes the most current IBM storage products, including the IBM Spectrum™ family, IBM FlashSystem®, disk, and tape, as well as virtualized solutions such as IBM Storage Cloud. This IBM Redbooks® publication provides overviews and information about the most current IBM System Storage products. It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency. IBM storage

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products can help you store, safeguard, retrieve, and share your data. This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio. It provides a starting point for establishing your own enterprise storage environment. This book describes the IBM Storage products as of March, 2016.

This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2016. ERCICA provides an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

This IBM® Platform Computing Solutions Redbooks® publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud, analytics, and High Performance Computing (HPC) solutions for our clients. This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for our clients in each industry. We include a few implementation and testing scenarios with selected solutions. This publication helps strengthen the position of IBM Platform Computing solutions with a well-defined and documented deployment model within an IBM System x® environment. This deployment model offers clients a planned foundation for dynamic cloud infrastructure, provisioning, large-scale parallel HPC application development, cluster management, and grid applications. This IBM publication is targeted to IT specialists, IT architects, support personnel, and clients. This book is intended for anyone who wants information about how IBM Platform

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Computing solutions use IBM to provide a wide array of client solutions.

This IBM® Redbooks® publication addresses performance tuning topics to help leverage the virtualization strengths of the POWER® platform to solve clients' system resource utilization challenges, and maximize system throughput and capacity. We examine the performance monitoring tools, utilities, documentation, and other resources available to help technical teams provide optimized business solutions and support for applications running on IBM POWER systems' virtualized environments. The book offers application performance examples deployed on IBM Power Systems™ utilizing performance monitoring tools to leverage the comprehensive set of POWER virtualization features: Logical Partitions (LPARs), micro-partitioning, active memory sharing, workload partitions, and more. We provide a well-defined and documented performance tuning model in a POWER system virtualized environment to help you plan a foundation for scaling, capacity, and optimization . This book targets technical professionals (technical consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing solutions and support on IBM POWER systems, including performance tuning.

A Time of Eclipse contains all the setting material from Eclipse Phase first edition. No rules included! Ideal for use with Transhumanity's Fate.

This IBM® Redbooks® publication introduces the IBM Software Defined Environment (SDE) solution, which helps to optimize the entire computing infrastructure--compute, storage, and network resources--so that it can adapt to the type of work required. In today's environment, resources are

assigned manually to workloads, but that happens automatically in a SDE. In an SDE, workloads are dynamically assigned to IT resources based on application characteristics, best-available resources, and service level policies so that they deliver continuous, dynamic optimization and reconfiguration to address infrastructure issues. Underlying all of this are policy-based compliance checks and updates in a centrally managed environment. Readers get a broad introduction to the new architecture. Think integration, automation, and optimization. Those are enablers of cloud delivery and analytics. SDE can accelerate business success by matching workloads and resources so that you have a responsive, adaptive environment. With the IBM Software Defined Environment, infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands. This information is intended for IBM sales representatives, IBM software architects, IBM Systems Technology Group brand specialists, distributors, resellers, and anyone who is developing or implementing SDE.

This book constitutes the proceedings of the 5th Latin American Conference, CARLA 2018, held in Bucaramanga, Colombia, in September 2018. The 24 papers presented in this volume were carefully reviewed and selected from 38 submissions. They are organized in topical sections on: Artificial

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Intelligence; Accelerators; Applications; Performance Evaluation; Platforms and Infrastructures; Cloud Computing.

(Instrumental Folio). If you play an instrument and you're a Disney fan, you'll love this collection of 101 favorites to learn and play! Songs include: Beauty and the Beast * Can You Feel the Love Tonight * A Dream Is a Wish Your Heart Makes * Evermore * Go the Distance * He's a Pirate * I See the Light * Kiss the Girl * Let It Go * Mickey Mouse March * Reflection * A Spoonful of Sugar * True Love's Kiss * We're All in This Together * When You Wish upon a Star * A Whole New World * You've Got a Friend in Me * Zip-A-Dee-Do-Dah * and more.

Updated for Docker Community Edition v18.09!

Docker book designed for SysAdmins, SREs, Operations staff, Developers and DevOps who are interested in deploying the open source container service Docker. In this book, we'll walk you through installing, deploying, managing, and extending Docker. We're going to do that by first introducing you to the basics of Docker and its components. Then we'll start to use Docker to build containers and services to perform a variety of tasks. We're going to take you through the development lifecycle, from testing to production, and see where Docker fits in and how it can make your life easier. We'll make use of Docker to build test environments for new projects, demonstrate how to integrate Docker with

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continuous integration workflow, and then how to build application services and platforms. Finally, we'll show you how to use Docker's API and how to extend Docker yourself. We'll teach you how to:

- * Install Docker.
- * Take your first steps with a Docker container.
- * Build Docker images.
- * Manage and share Docker images.
- * Run and manage more complex Docker containers.
- * Deploy Docker containers as part of your testing pipeline.
- * Build multi-container applications and environments.

Learn about orchestration using Compose and Swarm for the orchestration of Docker containers and Consul for service discovery.

- * Explore the Docker API.
- * Getting Help and Extending Docker.

Along with servers and networking infrastructure, networked storage is one of the fundamental components of a modern data center. Because storage networking has evolved over the past two decades, the industry has settled on the basic storage networking technologies. These technologies are Fibre Channel (FC) storage area networks (SANs), Internet Small Computer System Interface (iSCSI)-based Ethernet attachment, and Ethernet-based network-attached storage (NAS). Today, lossless, low-latency, high-speed FC SANs are viewed as the high-performance option for networked storage. iSCSI and NAS are viewed as lower cost, lower performance technologies. The advent of the 100 Gbps Ethernet and Data Center

Bridging (DCB) standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology. These characteristics include comparable speed, low latency, and lossless behavior. Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership, these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks. Fibre Channel over Ethernet (FCoE) is one approach to this convergence, but 10-Gbps-enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC. This IBM® Redbooks® publication is written for experienced systems, storage, and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and existing networks. This book provides an overview of today's options for storage networking convergence. It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products.

IBM® SmartCloud™ Entry provides a fully integrated software stack for transforming a virtualized environment to a cloud environment. The intuitive self-service portal allows users to get up and

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running quickly. Built-in workload metering and additional tools enable tight controls and planning. The IBM Reference Configuration for VMware on IBM System x® with SmartCloud Entry provides an affordable, easy to deploy, private cloud architecture with configurations based on leading-edge technology from IBM, VMware, and Juniper Networks. The reference configuration is for midsized companies that need simpler and affordable IT solutions, without compromising on functionality. IBM and VMware, world leaders in enterprise-class IT solutions, are now bringing IT solutions tailored to the midmarket. This IBM Redpaper™ publication provides setup, configuration, and deployment details for the reference configuration and is intended for IT professionals who are familiar with software and hardware setup and configuration.

IBM® Spectrum Protect Plus is a data protection solution that provides near-instant recovery, replication, retention management, and reuse for virtual machines, databases, and applications backups in hybrid multicloud environments. IBM Knowledge Center for IBM Spectrum® Protect Plus provides extensive documentation for installation, deployment, and usage. In addition, build and size an IBM Spectrum Protect Plus solution. The goal of this IBM Redpaper® publication is to summarize and complement the available information by providing

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useful hints and tips that are based on the authors' practical experience in installing and supporting IBM Spectrum Protect Plus in customer environments. Over time, our aim is to compile a set of best practices that cover all aspects of the product, from planning and installation to tuning, maintenance, and troubleshooting.

This practical guide has exactly what you need to work with Windows Server 2008. Inside, you'll find step-by-step procedures for using all of the major components, along with discussions on complex concepts such as Active Directory replication, DFS namespaces and replication, network access protection, the Server Core edition, Windows PowerShell, server clustering, and more. All of this with a more compact presentation and a tighter focus on tasks than you'll find in bulkier references. Windows Server 2008: The Definitive Guide takes a refreshing approach. You won't find the history of Windows NT, or discussions on the way things used to work. Instead, you get only the information you need to use this server. If you're a beginning or intermediate system administrator, you learn how the system works, and how to administer machines running it. The expert administrators among you discover new concepts and components outside of your realm of expertise. Simply put, this is the most thorough reference available for Windows Server 2008, with complete guides to: Installing the server

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in a variety of different environments File services and the Windows permission structure How the domain name system (DNS) works Active Directory, including its logical and physical structure, hierarchical components, scalability, and replication Group Policy's structure and operation Managing security policy with predefined templates and customized policy plans Architectural improvements, new features, and daily administration of IIS 7 Terminal Services from both the administrator's user's point of view Networking architecture including DNS, DHCP, VPN, RADIUS server, IAS, and IPsec Windows clustering services --- applications, grouping machines, capacity and network planning, user account management Windows PowerShell scripting and command-line technology With Windows Server 2008: The Definitive Guide, you to come away with a firm understanding of what's happening under the hood, but without the sense that you're taking a graduate course in OS theory. If you intend to work with this server, this is the only book you need.

This text offers a complete and precise explanation of the principles of nonverbal communication. The Fourth Edition continues to provide students with involving and interesting reading that explores how nonverbal behaviors can produce certain communication responses from others. This well-researched book offers conclusions about the

research in an easy-to-read and student-friendly style. The authors draw from a wide variety of disciplines and upon their vast experience as instructors, consultants, and corporate trainers to offer a unique blend of social scientific and humanistic approaches to the study of nonverbal behavior. Each chapter includes exercises, activities, self tests, or questionnaires that help students understand the actual and potential impact of nonverbal behaviors on communication. It also helps students build the skills they will need to become competent nonverbal communicators in today's global community.

This IBM® Redbooks® publication provides deployment guidelines, workload estimates, and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments. The result is a Reference Architecture for Virtualized Environments (RAVE) that uses VMware vSphere or Microsoft Hypervisor, IBM System x® or IBM BladeCenter® server, IBM System Networking, and IBM System Storage® N series with Clustered Data ONTAP as a storage foundation. The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions. This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address

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current and future data storage business requirements. It explores the solutions that IBM offers to create a storage cloud solution addressing client needs. This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing, services, proven technologies, and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts. This book is for anyone who wants to learn how to successfully deploy a virtualized environment. It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions. This book is suitable for IT architects, business partners, IBM clients, storage solution integrators, and IBM sales representatives.

This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power 750 and Power 760 servers supporting IBM AIX®, IBM i, and Linux operating systems. The goal of this paper is to introduce the major innovative Power 750 and Power 760 offerings and their prominent functions: The IBM POWER7+™ processor is available at frequencies of 3.1 GHz, 3.4 GHz, 3.5 GHz, and 4.0 GHz. The larger IBM POWER7+ Level 3 cache provides greater bandwidth, capacity, and reliability. The newly introduced POWER7+ dual chip module

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(DCM). New 10GBase-T options for the Integrated Multifunction Card that provides two USB ports, one serial port, and four Ethernet connectors for a processor enclosure and does not require a PCI slot. New IBM PowerVM® V2.2.2 features, such as 20 LPARs per core. The improved IBM Active Memory™ Expansion technology provides more usable memory than is physically installed in the system. Professionals who want to acquire a better understanding of IBM Power Systems™ products should read this paper. This Redpaper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the 750 and 760 systems. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing sources, may be used to enhance your knowledge of IBM server solutions. For additional reading: A Technote is available that explains the performance architecture of this server. It is of interest to those migrating workloads from existing Power 750 servers. It can be found at: Architecture of the IBM POWER7+ Technology-Based IBM Power 750 and IBM Power 760 Technote

This IBM® Redbooks® publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7® and POWER7+™

processors. This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX® and Linux operating systems, focusing on the more pervasive performance opportunities that are identified, and how to capitalize on them. The technical information was developed by a set of domain experts at IBM. The focus of this book is to gather the right technical information, and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7+ systems that run the AIX or Linux operating systems. This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in-depth knowledge. This optimization work can:

- Improve the performance of the application that is being optimized for the POWER7 system
- Carry over improvements to systems that are based on related processor chips
- Improve performance on other platforms

The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7-based servers, which includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power 710

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(8231-E1D) and Power 730 (8231-E2D) servers that support IBM AIX®, IBM i, and Linux operating systems. This paper also describes the IBM PowerLinux™ 7R1 (8246-L1D and 8246-L1T) and the PowerLinux 7R2 (8246-L2D and 8246-L2T) servers that support the Linux operating system. The goal of this paper is to introduce the innovative Power 710, Power 730, PowerLinux 7R1, and PowerLinux offerings and their major functions: IBM POWER7+™ processor is available at frequencies of 3.6 GHz, 4.2 GHz, and 4.3 GHz. Larger IBM POWER7+ Level 3 cache provides greater bandwidth, capacity, and reliability. Integrated SAS/SATA controller for HDD, SSD, tape, and DVD supports built-in hardware RAID 0, 1, and 10. New IBM PowerVM® V2.2.2 features, such as 20 LPARs per core. Improved IBM Active Memory™ Expansion technology provides more usable memory than is physically installed in the system. Professionals who want to acquire a better understanding of IBM Power Systems™ products can benefit from reading this paper. This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power 710 and Power 730 systems. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing

sources, can be used to enhance your knowledge of IBM server solutions.

Continuing its commitment to developing and delivering industry-leading storage technologies, IBM is introducing the IBM Real-time Compression Appliances for NAS, an innovative new storage offering that delivers essential storage efficiency technologies, combined with exceptional ease of use and performance. In an era when the amount of information, particularly in unstructured files, is exploding, but budgets for storing that information are stagnant, IBM Real-time Compression technology offers a powerful tool for better information management, protection, and access. IBM Real-time Compression can help slow the growth of storage acquisition, reducing storage costs while simplifying both operations and management. It also enables organizations to keep more data available for use rather than storing it offsite or on harder-to-access tape, so they can support improved analytics and decision making. IBM Real-time Compression Appliances provide on-line storage optimization through real-time data compression, delivering dramatic cost reduction without performance degradation. This IBM® Redbooks® publication is an easy-to-follow guide that describes how to design solutions successfully using IBM Real-time Compression Appliances (IBM RTCAs). It provides practical installation examples, ease of use,

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remote management, high availability, and administration techniques. Furthermore, it explains best practices for RTCA solution design, application integration, and practical RTCA use cases.

Need to get your book, business or blog unstuck? I spent two days with marketing guru Seth Godin, picking his brain and learning how he operates. In this book you will find: 1) 14 questions you need to ask yourself to get unstuck in any situation 2) What it takes to bring your business to the next level 3) How to break out of average and create something remarkable 4) Why we don't need commodities - but we do need YOU 5) What it means to craft and tell a story (and how to do it so you actually make sales) And much, much more.

In today's 24 x 7 world, there is likely not a business on this planet, IBM® Smarter Planet® or not, that finds that their storage requirements are growing too fast and demand is starting to outpace supply. Not only this, but in this cost-conscious environment of today, the costs of managing this growth are likely to be eating into the IT budget. One way to make better use of existing storage without adding more complexity to the infrastructure is the IBM System Storage® SAN Volume Controller (SVC). For many years now this has helped business become more flexible, agile, and introduced an extremely efficient storage environment. SAN Volume Controller is designed to deliver the benefits of storage

virtualization in environments from large enterprises to small businesses and midmarket companies. Virtualizing storage with SAN Volume Controller helps make new and existing storage more effective. SAN Volume Controller includes many functions that are traditionally deployed separately in disk systems. By including these in a virtualization system, SAN Volume Controller standardizes functions across virtualized storage for greater flexibility and potentially lower costs. Now, with IBM FlashSystem storage, SAN Volume Controller is enabled to extend its reach and benefit all virtualized storage. For example, IBM Easy Tier® optimizes use of flash storage. And IBM Real-time Compression enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical disk space. In this IBM Redbooks® publication, we show how to integrate the IBM FlashSystem 820 to provide storage to the SAN Volume Controller, and show how they are designed to operate seamlessly together, reducing management effort. In this book, which is aimed at pre- and post-sales support, storage administrators, and people that want to get an overview of this new and exciting technology, we show the steps required to implement the IBM FlashSystem 820 in an existing SAN Volume Controller environment. We also highlight some of the new features in SAN Volume Controller that increase performance. If you

are not already familiar with the SAN Volume Controller, it is beneficial to read the following IBM Redbooks publications: - Implementing the IBM System Storage SAN Volume Controller V6.3, SG24-7933 - Implementing the IBM Storwize V7000 V6.3, SG24-7938 - Real-time Compression in SAN Volume Controller and Storwize V7000, REDP-4859. Big Data represents a new era in data exploration and utilization, and IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is leveraging open source Big Data technology, infused with IBM technologies, to deliver a robust, secure, highly available, enterprise-class Big Data platform. The three defining characteristics of Big Data--volume, variety, and velocity--are discussed. You'll get a primer on Hadoop and how IBM is hardening it for the enterprise, and learn when to leverage IBM InfoSphere BigInsights (Big Data at rest) and IBM InfoSphere Streams (Big Data in motion) technologies. Industry use cases are also included in this practical guide. Learn how IBM hardens Hadoop for enterprise-class scalability and reliability Gain insight into IBM's unique in-motion and at-rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer

This book constitutes the proceedings of the 19th International Conference on Computer Information Systems and Industrial Management Applications,

CISIM 2020, held in Bialystok, Poland, in October 2020. Due to the COVID-19 pandemic the conference has been postponed to October 2020. The 40 full papers presented together with 5 abstracts of keynotes were carefully reviewed and selected from 62 submissions. The main topics covered by the chapters in this book are biometrics, security systems, multimedia, classification and clustering, industrial management. Besides these, the reader will find interesting papers on computer information systems as applied to wireless networks, computer graphics, and intelligent systems. The papers are organized in the following topical sections: biometrics and pattern recognition applications; computer information systems and security; industrial management and other applications; machine learning and high performance computing; modelling and optimization.

Nowadays, energy production increase has been proven a globally contentious issue, as it counts variable stakeholders of competitive interests. Such indicative competitive interests are land use for energy crops against maximizing agricultural production yields, as well as the gradually localized trend of energy production from renewables, compared to the central overexploitation of fossil-fuelled energy sources in mainland grids of energy production. In response to this multi-parametric contradiction on traditional and novel approaches of

energy production, this Special Issue aims at attracting researchers whose scientific interest resides in the electrical energy storage (EES) systems in a wide range of applicability: Technological advancements, environmental impacts, economies of scale achievement, active involvement of renewables in EES technologies, socio-economic impacts upon EES diffusion in regional and globalized contexts of analysis. The main limitations and the challenges derived from these scientific approaches will formulate a fresher scientific viewpoint of novel insights upon EES applicability in developed and developing economies, accordingly. Papers selected for this Special Issue are subject to a rigorous peer review procedure, enabling an integrated manner of dissemination upon research advancements and multi-disciplinary dynamics, accordingly.

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: 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

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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 IBM® Redbooks® publication demonstrates and documents that the combination of IBM System x®, IBM GPFSTM, IBM GPFS-FPO, IBM Platform Symphony®, IBM Platform HPC, IBM Platform LSF®, IBM Platform Cluster Manager Standard Edition, and IBM Platform Cluster Manager Advanced Edition deliver significant value to clients in need of cost-effective, highly scalable, and robust solutions. IBM depth of solutions can help the clients plan a foundation to face challenges in how to manage, maintain, enhance, and provision computing environments to, for example, analyze the growing volumes of data within their organizations. This IBM Redbooks publication addresses topics to educate, reiterate, confirm, and strengthen the widely held opinion of IBM Platform Computing as the systems software platform of choice within an IBM System x environment for deploying and managing environments that help clients solve

challenging technical and business problems. This IBM Redbooks publication addresses topics to that help answer customer's complex challenge requirements to manage, maintain, and analyze the growing volumes of data within their organizations and provide expert-level documentation to transfer the how-to-skills to the worldwide support teams. This IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective computing solutions that help optimize business results, product development, and scientific discoveries.

This book describes the fundamental scientific principles underlying high quality instrumentation used for environmental measurements. It discusses a wide range of in situ sensors employed in practical environmental monitoring and, in particular, those used in surface based measurement systems. It also considers the use of weather balloons to provide a wealth of upper atmosphere data. To illustrate the technologies in use it includes many examples of real atmospheric measurements in typical and unusual circumstances, with a discussion of the electronic signal conditioning, data acquisition considerations and data processing principles necessary for reliable measurements. This also allows the long history of atmospheric

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measurements to be placed in the context of the requirements of modern climate science, by building the physical science appreciation of the instrumental record and looking forward to new and emerging sensor and recording technologies.

This IBM® Redbooks® publication highlights IBM Technical Computing as a flexible infrastructure for clients looking to reduce capital and operational expenditures, optimize energy usage, or re-use the infrastructure. This book strengthens IBM SmartCloud® solutions, in particular IBM Technical Computing clouds, with a well-defined and documented deployment model within an IBM System x® or an IBM Flex System™. This provides clients with a cost-effective, highly scalable, robust solution with a planned foundation for scaling, capacity, resilience, optimization, automation, and monitoring. This book is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing cloud-computing solutions and support. Lenovo System x® and BladeCenter® servers and Lenovo Flex System™ compute nodes help to deliver a dynamic infrastructure that provides leadership quality and service that you can trust. This document (simply known as xREF) is a quick reference guide to the specifications of the currently available models of each System x and BladeCenter server. Each page can be used in a stand-alone

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format and provides a dense and comprehensive summary of the features of that particular server model. Links to the related Product Guide are also provided for more information. An easy-to-remember link you can use to share this guide:

<http://lenovopress.com/xref> Also available is xREF for Products Withdrawn Prior to 2012, a document that contains xREF sheets of System x, BladeCenter, and xSeries servers, and IntelliStation workstations that were withdrawn from marketing prior to 2012. Changes in the May 18 update: Added the Flex System Carrier-Grade Chassis See the Summary of changes in the document for a complete change history.

This IBM® Redbooks® publication provides information about aspects of performing infrastructure health checks, such as checking the configuration and verifying the functionality of the common subsystems (nodes or servers, switch fabric, parallel file system, job management, problem areas, and so on). This IBM Redbooks publication documents how to monitor the overall health check of the cluster infrastructure, to deliver technical computing clients cost-effective, highly scalable, and robust solutions. This IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost-effective Technical Computing and IBM High Performance Computing (HPC) solutions to optimize business results, product development, and scientific discoveries. This book provides a broad understanding of a new architecture.

Data is the new currency of business, the most critical asset

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of the modern organization. In fact, enterprises that can gain business insights from their data are twice as likely to outperform their competitors; yet, 72 percent of them have not started or are only planning big data activities. In addition, organizations often spend too much money and time managing where their data is stored. The average firm purchases 24% more storage every year, but uses less than half of the capacity it already has. A member of the IBM® Storwize® family, IBM SAN Volume Controller (SVC) Data Platform is a storage virtualization system that enables a single point of control for storage resources to help support improved business application availability and greater resource utilization. The objective is to manage storage resources in your IT infrastructure and to make sure they are used to the advantage of your business, and do it quickly, efficiently, and in real time, while avoiding increases in administrative costs. Virtualizing storage with SVC Data Platform helps make new and existing storage more effective. SVC Data Platform includes many functions traditionally deployed separately in disk systems. By including these in a virtualization system, SVC Data Platform standardizes functions across virtualized storage for greater flexibility and potentially lower costs. SVC Data Platform functions benefit all virtualized storage. For example, IBM Easy Tier® optimizes use of flash storage. And IBM Real-time Compression™ enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical disk space. Finally, high-performance thin provisioning helps automate provisioning. These benefits can help extend the useful life of existing storage assets, reducing costs. Integrating these functions into SVC Data Platform also means that they are designed to operate smoothly together, reducing management effort. In this IBM Redbooks® publication, we discuss the latest features and functions of

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the SVC 2145-DH8 and software version 7.3, implementation, architectural improvements, and Easy Tier.

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

In today's 24 x 7 world, there is likely not a business on this planet, IBM® Smarter Planet® or not, that finds that their storage requirements are growing too fast and demand is starting to outpace supply. Not only this, but in this cost-conscious environment of today, the costs of managing this growth are likely to be eating into the IT budget. One way to make better use of existing storage without adding more complexity to the infrastructure is the IBM System Storage® SAN Volume Controller (SVC). For many years now this has helped business become more flexible, agile, and introduced

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an extremely efficient storage environment. SAN Volume Controller is designed to deliver the benefits of storage virtualization in environments from large enterprises to small businesses and midmarket companies. Virtualizing storage with SAN Volume Controller helps make new and existing storage more effective. SAN Volume Controller includes many functions that are traditionally deployed separately in disk systems. By including these in a virtualization system, SAN Volume Controller standardizes functions across virtualized storage for greater flexibility and potentially lower costs. Now, with IBM FlashSystem™ storage, SAN Volume Controller is enabled to extend its reach and benefit all virtualized storage. For example, IBM Easy Tier® optimizes use of flash storage. And IBM Real-time Compression™ enhances efficiency even further by enabling the storage of up to five times as much active primary data in the same physical disk space. In this IBM Redbooks® publication, we show how to integrate the IBM FlashSystem 820 to provide storage to the SAN Volume Controller, and show how they are designed to operate seamlessly together, reducing management effort. In this book, which is aimed at pre- and post-sales support, storage administrators, and people that want to get an overview of this new and exciting technology, we show the steps required to implement the IBM FlashSystem 820 in an existing SAN Volume Controller environment. We also highlight some of the new features in SAN Volume Controller that increase performance. If you are not already familiar with the SAN Volume Controller, it is beneficial to read the following IBM Redbooks publications: - Implementing the IBM System Storage SAN Volume Controller V6.3, SG24-7933 - Implementing the IBM Storwize V7000 V6.3, SG24-7938 - Real-time Compression in SAN Volume Controller and Storwize V7000, REDP-4859 - IBM SAN Volume Controller and IBM FlashSystem 820: Best

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