Data Transfer Solutions

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Making CAD-CAM Data Transfer Work

IGI Global The 6th FTRA International Conference on Computer Science and its Applications (CSA-14) will be held in Guam, USA, Dec. 17 - 19, 2014.

CSA-14 presents a comprehensive conference focused on the various aspects of advances in engineering systems in computer science, and applications, including ubiquitous computing,

U-Health care system, Big Data, UI/UX for human-centric computing, Computing Service, Bioinformatics and Bio-Inspired Computing and will show recent advances on various aspects of computing technology, Ubiquitous Computing Services and its application. The Global Findex Database 2017 BoD – Books on Demand Master the art of container management utilizing the power of Kubernetes. About This Book This practical guide demystifies Kubernetes and ensures that your clusters are always available, scalable, and up to date Discover new features such as autoscaling, rolling updates, resource quotas, and cluster size Master the skills of designing and deploying large clusters on various cloud platforms Who This Book Is For The book is for system administrators and developers who have intermediate level of knowledge with Kubernetes and are now waiting to master its advanced features. You should also have basic networking knowledge. This advanced-level book provides a pathway to master Kubernetes. What You Will Learn Architect a robust Kubernetes cluster for long-time operation Discover the advantages of running Kubernetes on GCE, AWS, Azure, and bare metal See the identity model of Kubernetes and options for cluster federation Monitor and troubleshoot Kubernetes clusters and run a highly available Kubernetes Create and configure custom Kubernetes resources and use third-party resources in your automation workflows Discover the art of running complex stateful applications in your container environment Deliver applications as standard packages In Detail Kubernetes is an open source system to automate the deployment, scaling, and management of containerized applications. If you are running more than just a few containers or want automated management of your containers, you need Kubernetes. This book mainly focuses on the advanced management of Kubernetes clusters.

It covers problems that arise when you start using container orchestration in production. We start by giving you an overview of the guiding principles in Kubernetes design and show you the best practises in the fields of security, high availability, and cluster federation. You will discover how to run complex stateful microservices on Kubernetes including advanced features as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage back ends. Using real-world use cases, we explain the options for network configuration and provides guidelines on how to set up, operate, and troubleshoot various Kubernetes networking plugins.

Finally, we cover custom resource development and utilization in automation and maintenance workflows. By the end of this book, you'll know everything you need to know to go from intermediate to advanced level. Style and approach Delving into the design of the Kubernetes platform, the reader will be exposed to the advanced features and best practices of Kubernetes. This book will be an advanced level book which will provide a pathway to master Kubernetes

Improving the Performance of Neutral File Data Transfers World Bank Publications In 2011 the World Bank—with funding from the Bill and Melinda Gates Foun dation—launched the Global Findex database, the world's most comprehensive data set on how adults save, borrow, make payments, and manage risk. Drawing on survey data collected in collaboration with Gallup, Inc., the Global Findex database covers more than 140 economies around the world. The initial survey round was followed by a second one in 2014 and by a third in 2017. Compiled using nationally representative surveys of more than 150,000 adults age 15 and above in over 140 economies, The Global Findex

Database 2017: Measuring Financial Inclusion and the Fintech Revolution includes updated indicators on access to and use of formal and informal financial services. It has additional data on the use of financial technology (or fintech), including the use of mobile phones and the Internet to conduct financial transactions. The data reveal opportunities to expand access to financial services among people who do not have an account—the unbanked—as well as to promote greater use of digital financial services among those who do have an account. The Global Findex database has become a mainstay of global efforts to promote financial inclusion. In addition to being widely cited by scholars and development practitioners, Global Findex data are used to track progress toward the World Bank goal of Universal Financial Access by 2020 and the United Nations Sustainable Development Goals. The database, the full text of the report, and the underlying country-level data for all figures—along with the questionnaire, the survey methodology, and other relevant materials—are available at www.worldbank.org/globalfindex.

Design Solutions for nZEB Retrofit Buildings IBM Redbooks The goal of this text is to describe the technical design aspects of the IT infrastructure; it does not give the details of installing and customizing SAP software, nor business process reengineering. Using primarily HP products for the solution

examples, the chapters guide the reader through the foundation of the systems from an IT perspective, reviews its business application and architecture and introduces the server systems, then describes data storage, high availability and recovery solutions, client PCs with front-end user interfaces, output management and printing solutions, network infrastructure and requirements, cabling designs, LANs and WANs, and connecting mySAP.com to the Internet. Both authors are members of the HP-SAP International Competence Center. Annotation copyrighted by Book News, Inc., Portland, OR

Mastering Kubernetes Realtimepublishers.com This IBM® Redbooks® publication describes how to exchange data between applications running in two separate enterprises reliably and securely. This book includes an overview of the concepts of managed file transfer, the technologies that can be used, and common topologies for file transfer solutions. It then provides four scenarios that address different requirements. These scenarios provide a range of options that can be suited to your individual needs. This book is intended for

anyone who needs to design or develop a file transfer solution for his enterprise. The first scenario shows the use of an HTTPS web gateway to allow files to be transferred from an external web client to an internal WebSphere MQ File Transfer Edition backbone network. This option uses the WebSphere MQ File Transfer Edition Web Gateway SupportPac FO02. The second scenario uses the WebSphere MQ File Transfer Edition bridge agent to allow files to be transferred from an external File Transfer Protocol (FTP)/Secure File Transfer Protocol (SFTP) server to a WebSphere MQ File Transfer Edition backbone network The third scenario extends the concept of file transfer between enterprises by introducing more sophisticated transfer capabilities, along with enhanced security. This scenario uses the IBM WebSphere DataPower B2B Appliance XB60 to look at the specific case of file transfers between business partners. The last scenario also illustrates the integration of the IBM WebSphere DataPower B2B Appliance XB60 and WebSphere MQ File Transfer Edition, but in this case, non-business-to-business protocols are used. The file transfer is further enhanced through the use of WebSphere® Message Broker

to mediate the file transfer for routing and protocol transformation within the enterprise. *Structural Information and Communication Complexity* Springer Science & Business Media Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be on-boarded and off-boarded, information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise

might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks®

publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution

architecture involving IBM Sterling and IBM WebSphere portfolios. Please note that the additional material referenced in the text is not available from IBM. Official Gazette of the United States Patent and Trademark Office IGI Global This book is a compendium of various applications and current progress in a powerful technology

known as the Internet of Things (IoT). IoT provides a system of interconnecting things such as vehicles, electrical equipment, agriculture devices, etc. Such items are allocated with the computing device so that they can use a network to transfer data to one another and automate their actions on certain events.

Internet of Things: Applications for Sustainable Development will throw light on recent developments in the latest field and will be of great interest to know various application areas for sustainable development. This book mainly focuses on the current state of the art, including protocol design and low-cost sensor design, for the sustainable development of society using IoT. The sustainable development areas include climate, healthcare systems, electrical systems, and energy that can meet present and next-generation advancement

using IoT. Sustainable development faces various issues, challenges, opportunities, and future enhancements with the latest technologies, hardware, and software. Features: A real-world problem-solving approach for diversified problems Potential contributors from industries/academia have been given the opportunity to publish their work Identification of various challenges in IoT for future contributions Diversified coverage of the book, including applications, securities, industrialization, automation, etc. IoT for the sustainable development areas This book will offer strong support as a reference book for students, practitioners, researchers, and scientific investigators worldwide, as well as anyone who wants to set up IoT-enabled industries. It provides pertinent industries with new ideas and innovations to visionaries. Architecting Cloud-Native Serverless

Springer "This book focuses on the challenges of distributed systems imposed by the data intensive applications, and on the different state-of-the-art solutions proposed to overcome these challenges"--Provided by publisher.

The Essential Guide to Computer Data Storage Springer Science & Business Media This IBM® Redbooks® publication describes data migrations between IBM DS8000® storage systems, where in most cases one or more older DS8000 models are being replaced by the newer DS8870 model. Most of the migration methods are based on the DS8000 Copy Services. The book includes considerations for solutions such as IBM Tivoli® Productivity Center for Replication and the IBM Geographically Dispersed Parallel SysplexTM (GDPS®) used in IBM z/OS® environments. Both offerings are primarily designed to enable a disaster recovery using DS8000 Copy Services. In most data migration cases, Tivoli

Productivity Center for Replication or GDPS will not directly provide functions for the data migration itself. However, this book explains how to bring the new migrated environment back into the control of GDPS or Tivoli Productivity Center for Replication. In addition to the Copy Services based migrations, the book also covers host-based mirroring techniques, using IBM Transparent Data Migration Facility (TDMF®) for z/OS and the z/OS Dataset Mobility Facility (zDMF).

Computer Science and its Applications IGI Global This book constitutes the refereed proceedings of the 21st International Colloquium on Structural Information and Communication Complexity, SIROCCO 2014, held in Takayama, Japan, in July 2014. The 24 full papers presented together with 5 invited talks were carefully reviewed and selected from 51 submissions. The focus of the colloquium is on following

subjects Shared Memory and Multiparty Communication, Network Optimization, CONGEST Algorithms and Lower Bounds, Wireless networks, Aggregation and Creation Games in Networks, Patrolling and Barrier Coverage, Exploration, Rendevous and Mobile Agents.

Easy data transfer to your new HR-Outsourcing-Provider

Apress Economic globalization requires data to be available globally. With most data stored in file systems, solutions to make this data globally available become more important. Files that are in file systems can be protected or shared by replicating these files to another file system that is in a remote location. The remote location might be just around the corner or in a different country. Therefore, the techniques that are used to protect and share files must account for long distances and slow and unreliable wide area network (WAN) connections. IBM® Spectrum Scale is a scalable clustered file system that can be used to store all kinds of

unstructured data. It provides open data access by way of Network File System (NFS); Server Message Block (SMB); POSIX Object Storage APIs, such as S3 and OpenStack Swift; and the Hadoop Distributed File System (HDFS) for accessing and sharing data. The IBM Aspera® file transfer solution (IBM Aspera Sync) provides predictable and reliable data transfer across large distance for small and large files. The combination of both can be used for global sharing and protection of data. This IBM RedpaperTM publication describes how IBM Aspera Sync can be used to protect and share data that is stored in IBM SpectrumTM Scale file systems across large distances of several hundred to thousands of miles. We also explain the integration of IBM Aspera Sync with IBM Spectrum ScaleTM and differentiate it from solutions that are built into IBM Spectrum Scale for protection and sharing. We also describe different use cases for IBM Aspera Sync with IBM Spectrum Scale.

Services - SERVICES 2018 Prentice

Hall Professional Without established design patterns to guide them, developers have had to build distributed systems from scratch, and most of these systems are very unique indeed. Today, the increasing use of containers has paved the way for core distributed system patterns and reusable containerized components. This practical guide presents a collection of repeatable, generic patterns to help make the development of reliable distributed systems far more approachable and efficient. Author Brendan Burns—Director of Engineering at Microsoft Azure—demonstrates how you can adapt existing software design patterns for designing and building reliable distributed applications. Systems engineers and application developers will learn how these long-established patterns provide a common language and framework

for dramatically increasing the quality of your system. Understand how patterns and reusable components enable the rapid development of reliable distributed systems Use the side-car, adapter, and ambassador patterns to split your application into a group of containers on a single machine

Explore loosely coupled multi-node distributed patterns for replication, scaling, and communication between the components Learn distributed system patterns for large-scale batch data processing covering work-queues, event-based processing, and coordinated workflows *Internet of Things*

Information Gatekeepers Inc This book covers all data storage systems and latest technologies. It's a practical easy-to-use book on data storage. Extensive glossary of computer data storage-related terms. Aimed at a wide audience from beginner to advanced levels.
SAP Hardware Solutions Springer Construction projects, once they are completed, are intended

to exist in the skylines of cities and towns for decades. Sustainable technologies seek to take these existing structures and make them environmentally friendly and energy efficient. Design Solutions for nZEB Retrofit Buildings is a critical scholarly resource that examines the importance of creating architecture that not only promotes the daily function of these buildings but is also environmentally sustainable. Featuring a broad range of topics including renewable energy sources, solar energy, and energy performance, this book is geared toward professionals, students, and researchers seeking current research on sustainable options for upgrading existing edifices to become more environmentally friendly.

End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer solutions Packt Publishing Ltd This book is concerned

with problems and solutions associated with the exchange of data between different computer aided design, engineering and manufacturing (CAx) systems. After an analysis of the current problems a new strategy consisting of a test methodology, check software and tools for the improvement of the data exchange process are discussed. The particular problems associated with the transfer of curve and surface data are expanded upon and new methods to overcome them presented. With all these tools a system-specific adaption of neutral files is made possible. Thus the integration of several incompatible CAx systems within devel-opment and production processes can be effectively improved. In order to exclude incorrect data a new methodology for neutral file processor tests has been worked out. Finally, the benefits resulting from this

new strategy are shown by the example of data transfer not only between CAx systems but also between consecutive production processes.

Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management "O'Reilly Media, Inc." This User's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to

measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.

Integration of IBM Aspera Sync with IBM Spectrum Scale Springer This book provides analytical solutions to a number of classical problems in transport processes, i.e. in fluid mechanics, heat and mass transfer. Expanding computing power and more efficient numerical methods have increased the importance of computational tools.

However, the interpretation of these results is often difficult and the computational results need to be tested against the analytical results, making analytical solutions a valuable commodity. Furthermore, analytical solutions for transport processes provide a much deeper understanding of the physical phenomena involved in a given process than do corresponding numerical solutions. Though this book primarily addresses the needs of researchers and practitioners, it may also be beneficial for graduate students just entering the field.

Congestion Control in Data Transmission Networks Springer Radio Frequency Identification (RFID) is the technology applied for unambiguous and contactless identification of all types of objects. Varying magnetic fields or radio waves enable contactless data transfer as well as fast, automatic data collection. In addition, the importance of optical codes gains further importance due to their specific advantages. RFID and Auto ID systems are used in a wide range of sectors - from the consumer goods industry and trade via the automobile and aerospace

industries to the chemicals and pharmaceuticals industries, as well as logistics and transport facilities. New potentials to secure competitive advantages can be utilized with early planning of the application of RFID and Auto ID in procurement, manufacturing and logistics. In addition to RFID and Auto ID technology, this book presents applications from different areas of application which have already been tried and tested. They demonstrate the approach, the process and the selection of RFID and Auto ID systems for various problems. A perspective on trends and innovative security solutions shows possible future application options for this technology.

Financial Cryptography and Data Security IBM Redbooks Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive

information. Throughout this process, external partners must be on-boarded and off-boarded, information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for

IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios.
Ajax Black Book, New Edition (With Cd) IBM Redbooks This book addresses the need to improve TCP's performance inside data centers by providing solutions that are both practical and backward compatible with standard TCP versions.

The authors approach this challenge first by deriving an analytical model for TCP's performance under typical data center workload traffic. They then discuss some solutions that are designed to improve TCP performance by either proactively detecting network congestion through probabilistic retransmission or by avoiding timeout penalty through dynamic resizing of TCP segments. Experimental results show that each of techniques discussed outperforms standard TCP inside a data center.