

Pdf free Db2 z os cloning (PDF)

ibm db2 for z os is well known as the gold standard information steward deep synergy with the z os operating system and system z platform provides support for the highest transaction volumes with the ultimate levels of availability just like any high performance engine occasional maintenance or upgrades are needed to maintain peak performance and to incorporate new features those that demand the highest standards and protection of their production environments know that you want to test changes outside of production first it is common to have development or test environments for application development and verification what about applying db2 maintenance or performing migrations to new version or release levels sure you probably perform these activities outside of production first but are these environments similar enough to production to surface the same results as those you might encounter in production your production db2 catalog directory often has a different mix and complexity of objects which were created at different levels of db2 that can span decades of time the best test of these activities is against your production system but this is the system that we want to protect how can we accomplish this clone it skeleton cloning produces a specific kind of clone which provides a replica of the portions of your db2 production environment that are needed to complete your testing you can use the skeleton clone to find issues before they occur in production this process allows you to refine maintenance steps in a safe environment and to minimize potential downtime when performing the same steps in a production system this ibm redpapertm publication gives a high level overview of the ibm db2 cloning tool and includes specific use cases for the tool it also details the skeleton cloning process which you can use to test migration function levels and maintenance and includes demo examples that show a db2 11 to 12 migration test using skeleton cloning ibm db2 tools for z os support and take advantage of the latest versions of db2 for z os these tools are integral for the administration of the db2 for z os environment and for optimization of data performance in addition the ibm portfolio addresses additional client requirements in the areas of data governance and version upgrade acceleration underlying the operation of any database management system are the utilities with the number of database objects growing exponentially managing utility jobs meeting service level agreements slas and ensuring recoverability can be overwhelming ibm offers db2 tools solution packs that assist in the db2 utilities management process solution packs combine several products into a single consolidated solution providing everything necessary to ensure the execution of a set of database administration functions the goals are to reduce the operational complexity and reduce cost the objective of this ibm redbooks publication is to document the added value in terms of productivity and performance for database administrators when using the ibm db2 utilities solution pack and the ibm db2 fast copy solution pack we show the functions of the tools provided by the solution packs as used in real life scenarios and adopting utilities best practices the abcs of z os system programming is an 13 volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information that you need to start your research into z os and related subjects if you would like to

become more familiar with z os in your current environment or if you are evaluating platforms to consolidate your e business applications the abcs collection will serve as a powerful technical tool the contents of the volumes are as follows volume 1 introduction to z os and storage concepts tso e ispf jcl sdsf and z os delivery and installation volume 2 z os implementation and daily maintenance defining subsystems jes2 and jes3 lpa lnklst authorized libraries smp e language environment volume 3 introduction to dfsms data set basics storage management hardware and software catalogs and dfsmstvs volume 4 communication server tcp ip and vtam volume 5 base and parallel sysplex system logger resource recovery services rrs global resource serialization grs z os system operations automatic restart management arm geographically dispersed parallel sysplex gdps volume 6 introduction to security racf digital certificates and pki kerberos cryptography and z990 integrated cryptography zseries firewall technologies ldap and enterprise identity mapping eim volume 7 printing in a z os environment infoprint server and infoprint central volume 8 an introduction to z os problem diagnosis volume 9 z os unix system services volume 10 introduction to z architecture zseries processor design zseries connectivity lpar concepts hcd and hmc volume 11 capacity planning performance management wlm rmf and smf volume 12 wlm volume 13 jes3 the z os distributed file service zseries file system zfs is a z os unix file system that can be used like the hierarchical file system hfs zfs file systems contain files and directories including access control lists acls that can be accessed with the z os hfs application programming interfaces apis zfs file systems can be mounted into the z os unix hierarchy along with other local or remote file system types for example hfs tfs automnt nfs and so on zfs does not replace hfs but it is the z os unix strategic file system and ibm recommends migrating hfs file systems to zfs beginning with z os v1r7 there are no restrictions for file system structures that should be kept as hfs instead of zfs this ibm redbooks publication helps you to install tailor and configure new zfs file systems this information can be used by system administrators who work with the zfs component of the ibm z os distributed file service base element the book provides a broad description of the new architecture of the zfs file system for all releases up to zfs v1r13 you can use it as a reference when converting hfs file systems to zfs file systems it will help you to create a solution for migrating to zfs file systems and to understand the performance differences between hfs file systems and zfs file systems ibm continues to enhance the functionality performance availability and ease of use of ibm db2 utilities this ibm redbooks publication is the result of a project dedicated to the current db2 version 9 utilities suite product it provides information about introducing the functions that help set up and invoke the utilities in operational scenarios shows how to optimize concurrent execution of utilities and collect information for triggering utilities execution and provides considerations about partitioning it also describes the new functions provided by several utilities for share level change execution which maximize availability and the exploitation of dfsms constructs by the backup and restore system utilities this book concentrates on the enhancements provided by db2 udb for z os version 8 and db2 for z os version 9 it implicitly assumes a basic level of familiarity with the utilities provided by db2 for z os and os 390 version 7 this ibm redbooks publication describes changes in installation and migration when migrating from a current z os v1r10 and z os v1r11 to z os v1r12 also described are tasks to prepare for the installation of z os v1r12 including ensuring that driving system and target system requirements are met and coexistence requirements are satisfied new migration

actions are introduced in z/os v1r12 this book focuses on identifying some of the new migration actions that must be performed for selected elements when migrating to z/os v1r12 this book describes the following enhancements z/os v1r12 installation hiperdispatch system logger auto reply to wtors real storage manager rsm dfsms dfsort services aids z/os infoprint server tso e rmftm language environment bcp allocation xml system services z/os unix system services bcp supervisor extended address volumes hyperswap bcpii de cipherring predictive failure analysis c language hardware instrumentation services ficon dynamic channel path management workload manager sdsf jes2 jes3 smf grs xcf hcd unicode capacity provisioning rrs parallel subsystems initialization z/os management facility z/osmf today's business environment has increased in the complexity and rate of change that a database administrator must control the ability to respond quickly to a changing environment is constantly challenged by the explosion of data growth combined with a decline in an experienced work staff the ibm db2 administration tool for z/os version 10 helps you become productive from day 1 with db2 10 for z/os by using performance savings right away lowering the cpu costs while reducing the batch window users experience higher data availability by easily managing online schema changes including additional columns to indexes to use index only access customers are able to experience higher data availability through simplified recovery operations access new functionality in db2 10 for z/os to lower costs and improve efficiency both before during and after the db2 migration process maximize the performance of your key db2 business applications to speed their deployment in db2 10 for z/os improve the productivity and efficiency of your staff when db2 10 for z/os is running this ibm redbooks publication highlights the data administration enhancements introduced by db2 administration tool for z/os version 10 by providing scenarios of their use with the new functions provided by db2 10 for z/os over the last few years ibm imstm and ims tools have been modernizing the interfaces to ims and the ims tools to bring them more in line with the current interface designs as the mainframe software products are becoming more integrated with the windows and mobile environments a common approach to interfaces is becoming more relevant the traditional 3270 interface with ispf as the main interface is no longer the only way to do some of these processes there is also a need to provide more of a common looking interface so the tools do not have a product specific interface this allows more cross product integration eclipse and web based interfaces being used in a development environment tooling using those environments provides productivity improvements in that the interfaces are common and familiar ims and ims tools developers are making use of those environments to provide tooling that will perform some of the standard dba functions this book will take some selected processes and show how this new tooling can be used this will provide some productivity improvements and also provide a more familiar environment for new generations dbas some of the functions normally done by dba or console operators can now be done in this eclipse based environment by the application developers this means that the need to request these services from others can be eliminated this ibm redbooks publication examines specific ims dba processes and highlights the new ims and ims tools features which show an alternative way to accomplish those processes each chapter highlights a different area of the dba processes like psb creation starting stopping a database in an ims system recovering a database cloning a set of databases time to market flexibility and cost reduction are among the top concerns common to all it executives if significant resource investments are placed in mature

systems it organizations need to balance old and new technology older technology such as non ibm pre relational databases is costly inflexible and non standard users store their information on the mainframe and thus preserve the skills and qualities of service their business needs but users also benefit from standards based modernization by migrating to ibm db2 for z os with this migration users deliver new application features quickly and respond to changing business requirements more effectively when migrating the main decision is choosing between conversion and re engineering although the rewards associated with rebuilding mature applications are high so are the risks and customers that are embarking on a migration need that migration done quickly in this ibm redbooks publication we examine how to best approach the migration process by evaluating the environment assessing the application as a conversion candidate and identifying suitable tools this publication is intended for it decision makers and database administrators who are considering migrating their information to a modern database management system this ibm redbooks publication presents many of the new and improved features and functions of db2 v9 1 for z os and db2 connect v9 1 it explains how they complement and benefit your sap netweaver environment this book also shares some of our experiences in migrating our db2 v8 sap data sharing environment to db2 9 for z os with a minimal amount of outage this book is written for sap and db2 administrators knowledge of these products and of the z os environment is assumed this ibm redbooks publication provides information about installation and migration changes to be aware of if you are responsible for migrating systems from ibm z os v1r10 z os v1r11 and z os v1r12 to z os v1r13 it also highlights actions that are needed to prepare for the installation of z os v1r12 including ensuring driving system and target system requirements are met and coexistence requirements are satisfied there is a special focus on identifying new migration actions that must be performed for selected elements when migrating to z os v1r13 the book addresses the following topics z os v1r13 overview z os v1r13 installation managing volume backups with fast replication xcf enhancements console service enhancements dfsmsdfp dfsmsdam dfsmsmshsm ispf enhancements dfsmsrmm enhancements establishing ibm racf security for rrsf tcp ip connections grs enhancements bcp supervisor contents supervisor and rsm updates improved channel recovery service aids enhancements system logger smf z os unix system services z os unix related applications rrs z os management facility z os hcd and hcm c language storage management enhancements common information model predictive failure analysis extended address volume bcp capacity provisioning system ssl enhancements unicode ibm language environment sdsf enhancements jes2 enhancements jes3 enhancements ibm rmftm enhancements ibm websphere application server oem z osmf cim and capacity provisioning setups bcp metal c example each release of dfsms builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z os platform in a system managed storage environment this ibm redbooks publication provides a summary of the functions and enhancements in z os v1r12 dfsms it provides you with the information that you need to understand and evaluate the content of this dfsms release along with practical implementation hints and tips also included are enhancements that were made available through enabling ptf's that have been integrated into z os v1r12 dfsms this book was written for storage professionals and system programmers who have experience with the components of dfsms it provides sufficient information so that you can start prioritizing the implementation

of new functions and evaluating their applicability in your dfsms environment there are many reasons why you would want to optimize your servers through virtualization using linux on ibm system z too many distributed physical servers with low utilization a lengthy provisioning process that delays the implementation of new applications limitations in data center power and floor space high total cost of ownership tco difficulty allocating processing power for a dynamic environment this ibm redbooks publication provides a technical planning guide and example for it organizations to migrate from their x86 environment to linux on system z it begins by examining the benefits of migrating workloads to linux on system z here we describe the workload centric method of information technology and then discuss the benefits of migrating workloads to linux on system z next we describe total cost of ownership analyses and we guide you in understanding how to analyze your environment before beginning a migration project we also assist you in determining the expected consolidation ratio for a given workload type we also describe virtualization concepts along with describing the benefits of migrating from the x86 environment to guests residing on an ibm z vm single system image with live guest relocation this ibm redbooks publication walks you through a migration approach includes planning worksheets as well as a chapter to assist you in analyzing your own systems we also discuss post migration considerations such as acceptance testing of functionality and performance measurements the power of the ibm system z combined with the flexibility of linux on system z provides the ideal platform on which to implement sap application servers system z provides the benefits of continuous availability high performance scalability and ease of management these qualities support and complement mission critical sap business applications this ibm redbooks publication focuses on the implementation of sap application servers on linux on system z to leverage the synergy of this combination of products it provides detailed information to guide you through the planning process including resource sharing considerations hardware and software requirements support and maintenance this book takes you through the steps to prepare the system environment describing system and network configurations and demonstrates the procedures for installing and customizing your system it describes in detail how to install sap application servers in z vm linux images including the installation of sap and java and hipersockets finally it provides guidance for performance tuning and introduces some useful monitoring tools the goal of this ibm redbooks publication is to demonstrate the ability to perform single click automated deployments of multi platform applications that include ibm db2 for z os database schema changes by using the capabilities of ibm db2 devops experience for z os pushing the application and database code changes to a source control management system scm triggers a single ci cd pipeline execution for application and database changes therefore it mitigates the dependency on the dba to deploy those database changes in a separate process at the same time dbas can safeguard the integrity of their organization s data by implementing site rules in db2 devops experience dbas define whether a schema change can be approved automatically after all site rules are satisfied or whether it must be approved manually in this publication we provide an overview of the ci cd pipeline architecture in the context of a sample application we also describe the steps that are relevant to the roles of the devops engineer who implements the enterprise ci cd pipeline the dba who is responsible for database code changes in db2 for z os and for defining site rules that ensure quality in production and the application developer who changes

the application code and communicates requirements for changes in the database schema an information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners with the explosive growth in data and information coupled with demands for projects with rapid roi it infrastructures and storage administrators are reaching a breaking point ibm can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget and because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives ibm offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access you can control protect manage and gain new intelligence from your information with the ibm leading edge information infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world this ibm redbooks publication provides an overview of the ibm information infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security this will lead your company toward improved productivity service delivery and reduced risk while streamlining costs the ibm smart analytics system 9600 is a single end to end business analytics solution to accelerate data warehousing and business intelligence initiatives it provides integrated hardware software and services that enable enterprise customers to quickly and cost effectively deploy business changing analytics across their organizations as a workload optimized system for business analytics it leverages the strengths of the system z platform to drive significant savings in hardware software operating and people costs to deliver a complete range of data warehouse and bi capabilities faster time to value with a reduction in the time and speed associated with deploying business intelligence industry leading scalability reliability availability and security simplified and faster access to the data on system z this ibm redbooks publication can help you tailor and configure dfsms constructs to be used in an ibm db2 9 for z os environment in addition it provides a broad understanding of new disk architectures and their impact in db2 data set management for large installations this book addresses both the db2 administrator and the storage administrator the db2 administrator can find information about how to use dfsms for managing db2 data sets the storage administrator can find information about the characteristics of db2 data sets and how db2 uses the disks this book describes optimal use of disk storage functions in db2 for z os environments that can best make productive use of the synergy with i o subsystem on ibm system z this book covers the following topics using sms to manage db2 catalog log data indexes image copies archives work files taking advantage of ibm flashcopy for db2 utilities striping copy pools setting page sizes and using sliding allocation a description of pav ma midaw ef ea eav zhp and why they are helpful compressing data and the use disk and tape for large data sets backup and restore and remote copy services ibm db2 version 11.1 for z os db2 11 for z os or just db2 11 throughout this book is the fifteenth release of db2 for ibm mvstm it brings performance and synergy with the ibm system z hardware and opportunities to drive business value in the following areas db2 11 can provide unmatched reliability availability and scalability

improved data sharing performance and efficiency less downtime by removing growth limitations simplified management improved autonomies and reduced planned outages db2 11 can save money and save time aggressive cpu reduction goals additional utilities performance and cpu improvements save time and resources with new autonomic and application development capabilities db2 11 provides simpler faster migration sql compatibility divorce system migration from application migration access path stability improvements better application performance with sql and xml enhancements db2 11 includes enhanced business analytics faster more efficient performance for query workloads accelerator enhancements more efficient inline database scoring enables predictive analytics the db2 11 environment is available either for new installations of db2 or for migrations from db2 10 for z os subsystems only this ibm redbooks publication introduces the enhancements made available with db2 11 for z os the contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to db2 11 normal 0 false false false microsoftinternetexplorer4 ibm s definitive one stop guide to ims versions 12 11 and 10 for every ims dba developer and system programmer over 90 of the top fortune r 1000 companies rely on ibm s information management system ims for their most critical ibm system z r data management needs 50 000 000 000 transactions run through ims databases every day what s more ibm continues to upgrade ims versions 12 11 and 10 meet today s business challenges more flexibly and at a lower cost than ever before in an introduction to ims second edition leading ibm experts present the definitive technical introduction to these versions of ims more than a complete tutorial this book provides up to date examples cases problems solutions and a complete glossary of ims terminology prerequisite reading for the current ibm ims mastery certification program it reflects major recent enhancements such as dynamic information generation new access interoperability and development tools improved soa support and much more whether you re a dba database developer or system programmer it brings together all the knowledge you ll need to succeed with ims in today s mission critical environments coverage includes what ims is how it works how it has evolved and how it fits into modern enterprise it architectures providing secure access to ims via ims managed application programs understanding how ims and z os r work together to use hardware and software more efficiently setting up running and maintaining ims running ims database manager using the ims hierarchical database model sharing data and reorganizing databases understanding utilizing and optimizing ims transaction manager ims application development application programming for the ims database and ims transaction managers editing and formatting messages and programming applications in java tm ims system administration the ims system definition process customizing ims security logging ims operations database and system recovery and more ims in parallel sysplex r environments ensuring high availability providing adequate capacity and balancing workloads this ibm redbooks publication provides a broad understanding of the changes new features and new functions introduced with ibm z os version 2 release 1 2 1 this new version marks a new era of z os version 2 lays the groundwork for the next tier of mainframe computing enabling you to pursue the innovation to drive highly scalable workloads including private clouds support for mobile and social applications and more its unrivaled security infrastructure helps secure vast amounts of data its highly optimized availability can help you deliver new data analytics

solutions and its continued improvements in management help automate the operations of ibm zenterprise systems with support for ibm zenterprise ec12 zec12 enterprise class and zenterprise bc12 zbc12 business class systems z os 2.1 offers unmatched availability scalability and security to meet the business challenges of cloud services and data analytics and the security demands of mobile and social network applications through its unique design and qualities of service z os provides the foundation that you need to support these demanding workloads alongside your traditional mission critical applications

wintershare 2014 presentation this presentation on z os v2.1 june 2014 represents an update to the wintershare 2014 presentation and reflects z os enhancements delivered since general availability last fall please listen to john eells of our technical strategy team present this one hour comprehensive technical overview of z os v2.1 audio presentation 59mb

corresponding charts the abcs of z os system programming is an eleven volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information you need to start your research into z os and related subjects if you would like to become more familiar with z os in your current environment or if you are evaluating platforms to consolidate your e business applications the abcs collection will serve as a powerful learning tool the contents of the volumes are

volume 1 introduction to z os and storage concepts tso e ispf jcl sdsf and z os delivery and installation

volume 2 z os implementation and daily maintenance defining subsystems jes2 and jes3 lpa lnklst authorized libraries language environment and smp e

volume 3 introduction to dfsms data set basics storage management hardware and software vsam system managed storage catalogs and dfsmstvs

volume 4 communication server tcp ip and vtam

volume 5 base and parallel sysplex system logger resource recovery services rrs global resource serialization grs z os system operations automatic restart management arm geographically dispersed parallel sysplex tm gpds availability in the zseries environment

volume 6 introduction to security racf digital certificates and pki kerberos cryptography and z990 integrated cryptography zseries firewall technologies ldap enterprise identity mapping eim and firewall technologies

volume 7 printing in a z os environment infoprint server and infoprint central

volume 8 an introduction to z os problem diagnosis

volume 9 z os unix system services

volume 10 introduction to z architecture zseries processor design zseries connectivity lpar concepts hcd and hmc

volume 11 capacity planning performance management rmf and smf

volume 12 wlm

volume 13 jes3 mainframe computers play a central role in the daily operations of many of the world's largest corporations and batch processing is a fundamental part of the workloads that run on the mainframe a large portion of the workload on ibm z os systems is processed in batch mode although several ibm redbooks publications discuss application modernization on the ibm z os platform this book specifically addresses batch processing in detail many different technologies are available in a batch environment on z os systems this book demonstrates these technologies and shows how the z os system offers a sophisticated environment for batch in this practical book we discuss a variety of themes that are of importance for batch workloads on z os systems and offer examples that you can try on your own system the audience for this book includes it architects and application developers with a focus on batch processing on the z os platform this ibm redbooks publication helps you install configure and maintain the ibm z15tm machine types 8561 and 8562 systems the z15 systems offers new functions

that require a comprehensive understanding of the available configuration options this book presents configuration setup scenarios and describes implementation examples in detail this publication is intended for systems engineers hardware planners and anyone who needs to understand ibm z configuration and implementation readers should be familiar with ibm z technology and terminology for more information about the functions of the z15 systems see ibm z15 technical introduction sg24 8850 ibm z15 8561 technical guide sg24 8851 and ibm z15 8562 technical guide sg24 8852 there is enormous pressure today for businesses across all industries to cut costs enhance business performance and deliver greater value with fewer resources to take business analytics to the next level and drive tangible improvements to the bottom line it is important to manage not only the volume of data but the speed with which actionable findings can be drawn from a wide variety of disparate sources the findings must be easily communicated to those responsible for making both strategic and tactical decisions at the same time strained it budgets require that the solution be self service for everyone from dbas to business users and easily deployed to thin browser based clients business analytics hosted in the query management facilitytm qmftm on db2 and system z allow you to tackle these challenges in a practical way using new features and functions that are easily deployed across the enterprise and easily consumed by business users who do not have prior it experience this ibm redbooks publication provides step by step instructions on using these new features access to data that resides in any jdbc compliant data source olap access through xmla 150 new analytical functions graphical query interfaces and graphical reports graphical interactive dashboards ability to integrate qmf functions with third party applications support for the ibm db2 analytics accelerator a new qmf classic perspective in qmf for workstation ability to start qmf for tso as a db2 for z os stored procedure new metadata capabilities including er diagrams and capability to federate data into a single virtual source as ibm continues to enhance the functionality performance and availability of ibm db2 the utilities have made significant strides towards self management ibm db2 for z os utilities is leading the trend towards autonomies during the last couple of versions of db2 for z os and through the maintenance stream new features and enhancements have been delivered to further improve the performance and functionality of the db2 utilities the intent of this ibm redpapertm publication is to help db2 database administrators db2 system programmers and anyone who runs db2 for z os utilities implement best practices the intent of this paper is not to replicate the db2 for z os utilities reference guide or the db2 for z os installation guide this paper describes and informs you how to apply real life practical preferred practices for the ibm db2 for z os utilities suite the paper concentrates on the enhancements provided by db2 utilities regardless of the version albeit some functions and features are available only in db2 12 for ibm z os this ibm redbooks publication introduces the ibm interactive system productivity facility ispf productivity tool ipt version 7 release 1 for ibm z os ipt operates as a seamlessly integrated front end to ispf note the following points ipt functionality is available from any panel without a need to modify any ispf primary options menu all ipt functions are totally integrated ipt can perform almost any activity within ispf or internally invoke the function that can perform the task ipt combines separately provided ispf utility functions and new ispf productivity tool features into the object list olist and member selection list msl the resulting members datasets and object lists become powerful platforms where you can perform many tasks without navigating to other utilities ipt

relates objects to applications in a similar manner to the way that a pc performs object linking and embedding ole by extending the dataset objects that are used by ispf to other object classes ipt lets you specify the object to be processed and the action that is performed such as edit or browse the facility that is appropriate to the object class for the action that you have requested is invoked automatically ipt provides extensive search capabilities that are both rapid and intuitive you can easily search for volumes datasets members and text within members ispf productivity tool also furnishes automatic drill down system navigation to examine volumes datasets and members ipt provides a menu driven facility to display and recover all of the deleted members of a partitioned dataset pds library ipt extends the ispf action bar with options that provide access to new functionality so that you do not have to learn new commands or syntax in addition to the ispf point and shoot capabilities ipt provides new concepts such as hotbars user defined fields that execute commands field sensitive areas in msls and olists automatic recognition of a dataset name on any ispf panel as a parameter to browse edit or view or parameters within any time sharing option tso command ipt provides integrated and enhanced ibm software configuration and library manager sclm support within the standard member and dataset lists sclm is a source library management component of ispf that provides change control multiple source versions auditing a built in make facility and automatic check in sign out using standard libraries pds and partitioned dataset extended pdse ipt includes built in interfaces to various ibm and isv products ipt includes a new batch utility that provides a seamlessly integrated front end to the ibm iebcopy utility in addition to supporting all iebcopy standard functionality it includes additional major enhancements this book is intended as a supplement to existing product manuals it opens with an overview of the main ipt concepts and facilities and follows with detailed chapters which are each dedicated to a major ipt function practical scenarios accompanied by window captures and coding examples demonstrate how both experienced ispf users and those new to the ibm z os environment can benefit from the ipt enhanced functionality in each case db2 9 for z os is an exciting new version with many improvements in performance and little regression db2 v9 improves availability and security as well as adds greatly to sql and xml functions optimization improvements include more sql functions to optimize improved statistics for the optimizer better optimization techniques and a new approach to providing information for tuning v8 sql procedures were not eligible to run on the ibm system z9 integrated information processor ziip but changing to use the native sql procedures on db2 v9 makes the work eligible for ziip processing the performance of varying length data can improve substantially if there are large numbers of varying length columns several improvements in disk access can reduce the time for sequential disk access and improve data rates the key db2 9 for z os performance improvements include reduced cpu time in many utilities deep synergy with ibm system z hardware and z os software improved performance and scalability for inserts and lobs improved sql optimization ziip processing for remote native sql procedures index compression reduced cpu time for data with varying lengths and better sequential access virtual storage use below the 2 gb bar is also improved this ibm redbooks publication provides an overview of the performance impact of db2 9 for z os especially performance scalability for transactions cpu and elapsed time for queries and utilities we discuss the overall performance and possible impacts when moving from version to version we include performance measurements that were made in the laboratory and provide some

estimates keep in mind that your results are likely to vary as the conditions and work will differ in this book we assume that you are familiar with db2 v9 see db2 9 for z os technical overview sg24 7330 for an introduction to the new functions the abcs of ibm z os system programming is a 13 volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information that you need to start your research into z os and related subjects whether you want to become more familiar with z os in your current environment or you are evaluating platforms to consolidate your online business applications the abcs collection will serve as a powerful technical tool volume 1 provides an updated understanding of the software and ibm zseries architecture and explains how it is used together with the z os operating system this includes the main components of z os needed to customize and install the z os operating system this edition has been significantly updated and revised even as spending on digital transformation continues to skyrocket mainframes nevertheless have major advantages for global enterprises these systems still process huge amounts of information and allow for highly secure processing in this practical book author tom taulli shows software developers how to pursue a hybrid approach by integrating traditional mainframes and applications with modern digital systems by the end of the book you ll have a solid understanding of the mainframe architecture and ecosystem including core concepts and technologies such as cobol jcl db2 vsam and cics you ll learn how to blend in newer technologies such as the cloud ai and machine learning and the use of microservices this handbook is indispensable for enterprises looking to thrive in the new digital world learn strategies and approaches for mainframe devops update and maintain existing mainframe code and analyze and resolve common errors apply modern approaches to the mainframe including microservices apis cloud and ai and machine learning work with datasets and databases and put together effective reports understand how to work with modern cloud systems like aws for pursuing data migration this ibm redbooks publication is intended for ibm cics system programmers and ibm z architects it describes how to deploy and manage java ee 7 web based applications in an ibm cics liberty jvm server and access data on ibm db2 for ibm z os and ibm mq for z os sub systems in this book we describe the key steps to create and install a liberty jvm server within a cics region we then describe how to best use the different deployment techniques for java ee applications and the specific considerations when deploying applications that use jdbc jms and the new cics link to liberty api finally we describe how to secure web applications in cics liberty including transport level security and request authentication and authorization by using ibm racf and ldap registries information is also provided about how to build a high availability infrastructure and how to use the logging and monitoring functions that are available in the cics liberty environment this book is based on ibm cics transaction server cics ts v5 4 that uses the embedded ibm websphere application server liberty technology it is also applicable to cics ts v5 3 with the fixes for the continuous delivery apar pi77502 applied sample applications are used throughout this publication and are freely available for download from the ibm cicsdev github organization along with detailed deployment instructions db2 developer s guide is the field s 1 go to source for on the job information on programming and administering db2 on ibm z os mainframes now three time ibm information champion craig s mullins has thoroughly updated this classic for db2 v9 and v10 mullins fully covers new db2 innovations

including temporal database support hashing universal tablespaces purexml performance security and governance improvements new data types and much more using current versions of db2 for z os readers will learn how to build better databases and applications for cics ims batch caf and rrsaf write proficient code optimized db2 sql implement efficient dynamic and static sql applications use binding and rebinding to optimize applications efficiently create administer and manage db2 databases and applications design build and populate efficient db2 database structures for online batch and data warehousing improve the performance of db2 subsystems databases utilities programs and sql stat db2 developer s guide sixth edition builds on the unique approach that has made previous editions so valuable it combines condensed easy to read coverage of all essential topics information otherwise scattered through dozens of documents detailed discussions of crucial details within each topic expert field tested implementation advice sensible examples this ibm redbooks publication will help you install configure and use ibm infosphere optmtm workload replay infosphere workload replay a web based tool that lets you capture real production sql workload data and then replay the workload data in a pre production environment with infosphere workload replay you can set up and run realistic tests for enterprise database changes without the need to create a complex client and application infrastructure to mimic your production environment the publication goes through the steps to install and configure the infosphere workload replay appliance and related database components for ibm db2 for linux unix and windows and for db2 for ibm z os the capture replay and reporting process including user id and roles management is described in detail to quickly get you up and running ongoing operations such as appliance health monitoring starting and stopping the product and backup and restore in your day to day management of the product extensive troubleshooting information and information about how to integrate infosphere workload replay with other infosphere products are covered in separate chapters this ibm redbooks publication provides system administrators and developers with the knowledge to configure an ibm websphere application server version 8 runtime environment to package and deploy applications and to perform ongoing management of the websphere environment as one in a series of ibm redbooks publications and ibm redpapers publications for v8 the entire series is designed to give you in depth information about key websphere application server features in this book we provide a detailed exploration of the websphere application server v8 runtime administration process this book includes configuration and administration information for websphere application server v8 and websphere application server network deployment v8 on distributed platforms and websphere application server for z os v8 the following publications are prerequisites for this book websphere application server v8 0 technical overview redp 4756 ibm websphere application server v8 concepts planning and design guide sg24 7957 this ibm redbooks publication is a companion to ibm system storage business continuity part 1 planning guide sg24 6547 we assume that the reader of this book has understood the concepts of business continuity planning described in that book in this book we explore ibm system storage solutions for business continuity within the three segments of continuous availability rapid recovery and backup and restore we position these solutions within the business continuity tiers we describe in general the solutions available in each segment then present some more detail on many of the products in each case the reader is pointed to sources of more information ibm information management system imstm provides leadership in

performance reliability and security to help you implement the most strategic and critical enterprise applications ims also keeps pace with the it industry ims enterprise suite 2 1 and ims tools continue to evolve to provide value and meet the needs of enterprise customers with ims 12 integration and open access improvements provide flexibility and support business growth requirements manageability enhancements help optimize system staff productivity by improving ease of use and autonomic computing facilities and by providing increased availability scalability improvements have been made to the well known performance efficiency availability and resilience of ims by using 64 bit storage ibm ims enterprise suite for z os v2 1 components enhance the use of ims applications and data in this release components either orderable or downloaded from the web deliver innovative new capabilities for your ims environment they enhance connectivity expand application development extend standards and tools for a service oriented architecture soa ease installation and provide simplified interfaces this ibm redbooks publication explores the new features of ims 12 and enterprise suite 2 1 and provides an overview of the ims tools in addition this book highlights the major new functions and facilitates database administrators in their planning for installation and migration in this ibm redbooks publication you will gain an appreciation of the ibm cics transaction gateway cics tg product suite based on key criteria such as capabilities scalability platform cics server support application language support and licensing model matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available in this book you will gain an understanding of those choices and will be capable of choosing the appropriate cics connection protocol apis for the applications and security options you will understand the services available to the application developer when using a chosen protocol you will then learn about how to implement cics tg solutions taking advantage of the latest capabilities such as ipic connectivity high availability and dynamic server selection specific scenarios illustrate the usage of cics tg for ibm z os and cics tg for multiplatforms with cics transaction server for z os and ibm websphere application server including connections in cics configuring simple end to end connectivity all platforms with verification for remote and local mode applications and adding security xa support and high availability 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 spectrumtm family ibm flashsystem disk and tape as well as virtualized solutions such 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 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

Db2 Skeleton Cloning: Protecting Your Production Environment 2017-11-27

ibm db2 for z os is well known as the gold standard information steward deep synergy with the z os operating system and system z platform provides support for the highest transaction volumes with the ultimate levels of availability just like any high performance engine occasional maintenance or upgrades are needed to maintain peak performance and to incorporate new features those that demand the highest standards and protection of their production environments know that you want to test changes outside of production first it is common to have development or test environments for application development and verification what about applying db2 maintenance or performing migrations to new version or release levels sure you probably perform these activities outside of production first but are these environments similar enough to production to surface the same results as those you might encounter in production your production db2 catalog directory often has a different mix and complexity of objects which were created at different levels of db2 that can span decades of time the best test of these activities is against your production system but this is the system that we want to protect how can we accomplish this clone it skeleton cloning produces a specific kind of clone which provides a replica of the portions of your db2 production environment that are needed to complete your testing you can use the skeleton clone to find issues before they occur in production this process allows you to refine maintenance steps in a safe environment and to minimize potential downtime when performing the same steps in a production system this ibm redpapertm publication gives a high level overview of the ibm db2 cloning tool and includes specific use cases for the tool it also details the skeleton cloning process which you can use to test migration function levels and maintenance and includes demo examples that show a db2 11 to 12 migration test using skeleton cloning

Db2 Skeleton Cloning 2017

ibm db2 tools for z os support and take advantage of the latest versions of db2 for z os these tools are integral for the administration of the db2 for z os environment and for optimization of data performance in addition the ibm portfolio addresses additional client requirements in the areas of data governance and version upgrade acceleration underlying the operation of any database management system are the utilities with the number of database objects growing exponentially managing utility jobs meeting service level agreements slas and ensuring recoverability can be overwhelming ibm offers db2 tools solution packs that assist in the db2 utilities management process solution packs combine several products into a single consolidated solution providing everything necessary to ensure the execution of a set of database administration functions the goals are to reduce the operational complexity and reduce cost the objective of this ibm redbooks publication is to document the added value in terms of productivity and performance for database administrators when using the ibm db2 utilities solution pack and the ibm db2 fast copy solution pack we show the functions of the tools provided by the solution packs as used in real life scenarios and adopting utilities best practices

2023-08-05

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the mark of athena the heroes of olympus

Managing DB2 for z/OS Utilities with DB2 Tools Solution Packs 2013-07-16

the abcs of z os system programming is an 13 volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information that you need to start your research into z os and related subjects if you would like to become more familiar with z os in your current environment or if you are evaluating platforms to consolidate your e business applications the abcs collection will serve as a powerful technical tool the contents of the volumes are as follows volume 1 introduction to z os and storage concepts tso e ispf jcl sdsf and z os delivery and installation volume 2 z os implementation and daily maintenance defining subsystems jes2 and jes3 lpa lnklst authorized libraries smp e language environment volume 3 introduction to dfsms data set basics storage management hardware and software catalogs and dfsmsvts volume 4 communication server tcp ip and vtam volume 5 base and parallel sysplex system logger resource recovery services rrs global resource serialization grs z os system operations automatic restart management arm geographically dispersed parallel sysplex gdps volume 6 introduction to security racf digital certificates and pki kerberos cryptography and z990 integrated cryptography zseries firewall technologies ldap and enterprise identity mapping eim volume 7 printing in a z os environment infoprint server and infoprint central volume 8 an introduction to z os problem diagnosis volume 9 z os unix system services volume 10 introduction to z architecture zseries processor design zseries connectivity lpar concepts hcd and hmc volume 11 capacity planning performance management wlm rmf and smf volume 12 wlm volume 13 jes3

Sap on DB2 for Z/OS and Os/390 DB2 System Cloning 2001-11-01

the z os distributed file service zseries file system zfs is a z os unix file system that can be used like the hierarchical file system hfs zfs file systems contain files and directories including access control lists acs that can be accessed with the z os hfs application programming interfaces apis zfs file systems can be mounted into the z os unix hierarchy along with other local or remote file system types for example hfs tfs automnt nfs and so on zfs does not replace hfs but it is the z os unix strategic file system and ibm recommends migrating hfs file systems to zfs beginning with z os v1r7 there are no restrictions for file system structures that should be kept as hfs instead of zfs this ibm redbooks publication helps you to install tailor and configure new zfs file systems this information can be used by system administrators who work with the zfs component of the ibm z os distributed file service base element the book provides a broad description of the new architecture of the zfs file system for all releases up to zfs v1r13 you can use it as a reference when converting hfs file systems to zfs file systems it will help you to create a solution for migrating to zfs file systems and to understand the performance differences between hfs file systems and zfs file systems

ABCs of z/OS System Programming: Volume 9 2011-05-12

ibm continues to enhance the functionality performance availability and ease of use of ibm db2 utilities this ibm redbooks publication is the result of a project dedicated to the current db2 version 9 utilities suite product it provides information about introducing the functions that help set up and invoke the utilities in operational scenarios shows how to optimize concurrent execution of utilities and collect information for triggering utilities execution and provides considerations about partitioning it also describes the new functions provided by several utilities for share level change execution which maximize availability and the exploitation of dfsms constructs by the backup and restore system utilities this book concentrates on the enhancements provided by db2 udb for z os version 8 and db2 for z os version 9 it implicitly assumes a basic level of familiarity with the utilities provided by db2 for z os and os 390 version 7

z/OS Distributed File Service zSeries File System Implementation z/OS V1R13 2012-10-18

this ibm redbooks publication describes changes in installation and migration when migrating from a current z os v1r10 and z os v1r11 to z os v1r12 also described are tasks to prepare for the installation of z os v1r12 including ensuring that driving system and target system requirements are met and coexistence requirements are satisfied new migration actions are introduced in z os v1r12 this book focuses on identifying some of the new migration actions that must be performed for selected elements when migrating to z os v1r12 this book describes the following enhancements z os v1r12 installation hiperdispatch system logger auto reply to wtors real storage manager rsm dfsms dfsort services aids z os infoprint server tso e rmftm language environment bcp allocation xml system services z os unix system services bcp supervisor extended address volumes hyperswap bcpii de cipherring predictive failure analysis c language hardware instrumentation services ficon dynamic channel path management workload manager sdsf jes2 jes3 smf grs xcf hcd unicode capacity provisioning rrs parallel subsystems initialization z os management facility z osmf

DB2 9 for z/OS: Using the Utilities Suite 2010-04-27

today s business environment has increased in the complexity and rate of change that a database administrator must control the ability to respond quickly to a changing environment is constantly challenged by the explosion of data growth combined with a decline in an experienced work staff the ibm db2 administration tool for z os version 10 helps you become productive from day 1 with db2 10 for z os by using performance savings right away lowering the cpu costs while reducing the batch window users

experience higher data availability by easily managing online schema changes including additional columns to indexes to use index only access customers are able to experience higher data availability through simplified recovery operations access new functionality in db2 10 for z os to lower costs and improve efficiency both before during and after the db2 migration process maximize the performance of your key db2 business applications to speed their deployment in db2 10 for z os improve the productivity and efficiency of your staff when db2 10 for z os is running this ibm redbooks publication highlights the data administration enhancements introduced by db2 administration tool for z os version 10 by providing scenarios of their use with the new functions provided by db2 10 for z os

z/OS Version 1 Release 12 Implementation 2011-04-27

over the last few years ibm imstm and ims tools have been modernizing the interfaces to ims and the ims tools to bring them more in line with the current interface designs as the mainframe software products are becoming more integrated with the windows and mobile environments a common approach to interfaces is becoming more relevant the traditional 3270 interface with ispf as the main interface is no longer the only way to do some of these processes there is also a need to provide more of a common looking interface so the tools do not have a product specific interface this allows more cross product integration eclipse and web based interfaces being used in a development environment tooling using those environments provides productivity improvements in that the interfaces are common and familiar ims and ims tools developers are making use of those environments to provide tooling that will perform some of the standard dba functions this book will take some selected processes and show how this new tooling can be used this will provide some productivity improvements and also provide a more familiar environment for new generations dbas some of the functions normally done by dba or console operators can now be done in this eclipse based environment by the application developers this means that the need to request these services from others can be eliminated this ibm redbooks publication examines specific ims dba processes and highlights the new ims and ims tools features which show an alternative way to accomplish those processes each chapter highlights a different area of the dba processes like psb creation starting stopping a database in an ims system recovering a database cloning a set of databases

Managing IBM DB2 10 for z/OS Using the IBM DB2 Administration Tool for z/OS Version 10 2011-04-22

time to market flexibility and cost reduction are among the top concerns common to all it executives if significant resource investments are placed in mature systems it organizations need to balance old and new technology older technology such as non ibm pre relational databases is costly inflexible and non standard users store their information on the mainframe and thus

preserve the skills and qualities of service their business needs but users also benefit from standards based modernization by migrating to ibm db2 for z os with this migration users deliver new application features quickly and respond to changing business requirements more effectively when migrating the main decision is choosing between conversion and re engineering although the rewards associated with rebuilding mature applications are high so are the risks and customers that are embarking on a migration need that migration done quickly in this ibm redbooks publication we examine how to best approach the migration process by evaluating the environment assessing the application as a conversion candidate and identifying suitable tools this publication is intended for it decision makers and database administrators who are considering migrating their information to a modern database management system

IBM IMS Solutions for Automating Database Management 2014-12-09

this ibm redbooks publication presents many of the new and improved features and functions of db2 v9 1 for z os and db2 connect v9 1 it explains how they complement and benefit your sap netweaver environment this book also shares some of our experiences in migrating our db2 v8 sap data sharing environment to db2 9 for z os with a minimal amount of outage this book is written for sap and db2 administrators knowledge of these products and of the z os environment is assumed

Streamline Business with Consolidation and Conversion to DB2 for z/OS 2014-11-05

this ibm redbooks publication provides information about installation and migration changes to be aware of if you are responsible for migrating systems from ibm z os v1r10 z os v1r11 and z os v1r12 to z os v1r13 it also highlights actions that are needed to prepare for the installation of z os v1r12 including ensuring driving system and target system requirements are met and coexistence requirements are satisfied there is a special focus on identifying new migration actions that must be performed for selected elements when migrating to z os v1r13 the book addresses the following topics z os v1r13 overview z os v1r13 installation managing volume backups with fast replication xcf enhancements console service enhancements dfsmsdfp dfsmsdam dfsmsm ispf enhancements dfsmsrmm enhancements establishing ibm racf security for rrsf tcp ip connections grs enhancements bcp supervisor contents supervisor and rsm updates improved channel recovery service aids enhancements system logger smf z os unix system services z os unix related applications rrs z os management facility z os hcd and hcm c language storage management enhancements common information model predictive failure analysis extended address volume bcpii capacity provisioning system ssl enhancements unicode ibm language environment sdsf enhancements jes2 enhancements jes3 enhancements ibm rmftm enhancements ibm websphere application server oem z osmf cim and capacity provisioning

setups bcpii metal c example

Enhancing SAP by Using DB2 9 for z/OS 2009-04-10

each release of dfsms builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z os platform in a system managed storage environment this ibm redbooks publication provides a summary of the functions and enhancements in z os v1r12 dfsms it provides you with the information that you need to understand and evaluate the content of this dfsms release along with practical implementation hints and tips also included are enhancements that were made available through enabling ptfs that have been integrated into z os v1r12 dfsms this book was written for storage professionals and system programmers who have experience with the components of dfsms it provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your dfsms environment

z/OS Version 1 Release 13 Implementation 2012-03-27

there are many reasons why you would want to optimize your servers through virtualization using linux on ibm system z too many distributed physical servers with low utilization a lengthy provisioning process that delays the implementation of new applications limitations in data center power and floor space high total cost of ownership tco difficulty allocating processing power for a dynamic environment this ibm redbooks publication provides a technical planning guide and example for it organizations to migrate from their x86 environment to linux on system z it begins by examining the benefits of migrating workloads to linux on system z here we describe the workload centric method of information technology and then discuss the benefits of migrating workloads to linux on system z next we describe total cost of ownership analyses and we guide you in understanding how to analyze your environment before beginning a migration project we also assist you in determining the expected consolidation ratio for a given workload type we also describe virtualization concepts along with describing the benefits of migrating from the x86 environment to guests residing on an ibm z vm single system image with live guest relocation this ibm redbooks publication walks you through a migration approach includes planning worksheets as well as a chapter to assist you in analyzing your own systems we also discuss post migration considerations such as acceptance testing of functionality and performance measurements

z/OS V1.12 DFSMS Technical Update 2011-09-30

the power of the ibm system z combined with the flexibility of linux on system z provides the ideal platform on which to implement sap application servers system z provides the benefits of continuous availability high performance scalability and ease of management these qualities support and complement mission critical sap business applications this ibm redbooks publication focuses on the implementation of sap application servers on linux on system z to leverage the synergy of this combination of products it provides detailed information to guide you through the planning process including resource sharing considerations hardware and software requirements support and maintenance this book takes you through the steps to prepare the system environment describing system and network configurations and demonstrates the procedures for installing and customizing your system it describes in detail how to install sap application servers in z vm linux images including the installation of sap and java and hipersockets finally it provides guidance for performance tuning and introduces some useful monitoring tools

Practical Migration from x86 to Linux on IBM System z 2014-09-18

the goal of this ibm redbooks publication is to demonstrate the ability to perform single click automated deployments of multi platform applications that include ibm db2 for z os database schema changes by using the capabilities of ibm db2 devops experience for z os pushing the application and database code changes to a source control management system scm triggers a single ci cd pipeline execution for application and database changes therefore it mitigates the dependency on the dba to deploy those database changes in a separate process at the same time dbas can safeguard the integrity of their organization s data by implementing site rules in db2 devops experience dbas define whether a schema change can be approved automatically after all site rules are satisfied or whether it must be approved manually in this publication we provide an overview of the ci cd pipeline architecture in the context of a sample application we also describe the steps that are relevant to the roles of the devops engineer who implements the enterprise ci cd pipeline the dba who is responsible for database code changes in db2 for z os and for defining site rules that ensure quality in production and the application developer who changes the application code and communicates requirements for changes in the database schema

SAP on DB2 9 for z/OS: Implementing Application Servers on Linux for

System z 2009-04-28

an information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners with the explosive growth in data and information coupled with demands for projects with rapid roi it infrastructures and storage administrators are reaching a breaking point ibm can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget and because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives ibm offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access you can control protect manage and gain new intelligence from your information with the ibm leading edge information infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world this ibm redbooks publication provides an overview of the ibm information infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security this will lead your company toward improved productivity service delivery and reduced risk while streamlining costs

Integrating Db2 for z/OS Database Changes Into a CI/CD Pipeline 2021-09-13

the ibm smart analytics system 9600 is a single end to end business analytics solution to accelerate data warehousing and business intelligence initiatives it provides integrated hardware software and services that enable enterprise customers to quickly and cost effectively deploy business changing analytics across their organizations as a workload optimized system for business analytics it leverages the strengths of the system z platform to drive significant savings in hardware software operating and people costs to deliver a complete range of data warehouse and bi capabilities faster time to value with a reduction in the time and speed associated with deploying business intelligence industry leading scalability reliability availability and security simplified and faster access to the data on system z

IBM Information Infrastructure Solutions Handbook 2010-07-11

this ibm redbooks publication can help you tailor and configure dfsms constructs to be used in an ibm db2 9 for z os environment in addition it provides a broad understanding of new disk architectures and their impact in db2 data set management for large installations this book addresses both the db2 administrator and the storage administrator the db2

administrator can find information about how to use dfsms for managing db2 data sets the storage administrator can find information about the characteristics of db2 data sets and how db2 uses the disks this book describes optimal use of disk storage functions in db2 for z os environments that can best make productive use of the synergy with i o subsystem on ibm system z this book covers the following topics using sms to manage db2 catalog log data indexes image copies archives work files taking advantage of ibm flashcopy for db2 utilities striping copy pools setting page sizes and using sliding allocation a description of pav ma midaw ef ea eav zhp and why they are helpful compressing data and the use disk and tape for large data sets backup and restore and remote copy services

Getting Started with the IBM Smart Analytics System 9600 2011-04-12

ibm db2 version 11.1 for z/os db2 11 for z/os or just db2 11 throughout this book is the fifteenth release of db2 for ibm mvstm it brings performance and synergy with the ibm system z hardware and opportunities to drive business value in the following areas db2 11 can provide unmatched reliability availability and scalability improved data sharing performance and efficiency less downtime by removing growth limitations simplified management improved autonomies and reduced planned outages db2 11 can save money and save time aggressive cpu reduction goals additional utilities performance and cpu improvements save time and resources with new autonomic and application development capabilities db2 11 provides simpler faster migration sql compatibility divorce system migration from application migration access path stability improvements better application performance with sql and xml enhancements db2 11 includes enhanced business analytics faster more efficient performance for query workloads accelerator enhancements more efficient inline database scoring enables predictive analytics the db2 11 environment is available either for new installations of db2 or for migrations from db2 10 for z/os subsystems only this ibm redbooks publication introduces the enhancements made available with db2 11 for z/os the contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to db2 11

DB2 9 for z/OS and Storage Management 2010-09-17

normal 0 false false false microsoftinternetexplorer4 ibm s definitive one stop guide to ims versions 12.11 and 10 for every ims dba developer and system programmer over 90 of the top fortune 1000 companies rely on ibm s information management system ims for their most critical ibm system z r data management needs 50 000 000 000 transactions run through ims databases every day what s more ibm continues to upgrade ims versions 12.11 and 10 meet today s business challenges more flexibly and at a lower cost than ever before in an introduction to ims second edition leading ibm experts present the definitive technical introduction to these versions of ims more than a complete tutorial this book provides up to date examples cases

problems solutions and a complete glossary of ims terminology prerequisite reading for the current ibm ims mastery certification program it reflects major recent enhancements such as dynamic information generation new access interoperability and development tools improved soa support and much more whether you re a dba database developer or system programmer it brings together all the knowledge you ll need to succeed with ims in today s mission critical environments coverage includes what ims is how it works how it has evolved and how it fits into modern enterprise it architectures providing secure access to ims via ims managed application programs understanding how ims and z os r work together to use hardware and software more efficiently setting up running and maintaining ims running ims database manager using the ims hierarchical database model sharing data and reorganizing databases understanding utilizing and optimizing ims transaction manager ims application development application programming for the ims database and ims transaction managers editing and formatting messages and programming applications in java tm ims system administration the ims system definition process customizing ims security logging ims operations database and system recovery and more ims in parallel sysplex r environments ensuring high availability providing adequate capacity and balancing workloads

DB2 11 for z/OS Technical Overview 2016-05-05

this ibm redbooks publication provides a broad understanding of the changes new features and new functions introduced with ibm z os version 2 release 1 2 1 this new version marks a new era of z os version 2 lays the groundwork for the next tier of mainframe computing enabling you to pursue the innovation to drive highly scalable workloads including private clouds support for mobile and social applications and more its unrivaled security infrastructure helps secure vast amounts of data its highly optimized availability can help you deliver new data analytics solutions and its continued improvements in management help automate the operations of ibm zenterprise systems with support for ibm zenterprise ec12 zec12 enterprise class and zenterprise bc12 zbc12 business class systems z os 2 1 offers unmatched availability scalability and security to meet the business challenges of cloud services and data analytics and the security demands of mobile and social network applications through its unique design and qualities of service z os provides the foundation that you need to support these demanding workloads alongside your traditional mission critical applications wintershare 2014 presentation this presentation on z os v2 1 june 2014 represents an update to the wintershare 2014 presentation and reflects z os enhancements delivered since general availability last fall please listen to john eells of our technical strategy team present this one hour comprehensive technical overview of z os v2 1 audio presentation 59mb corresponding charts

An Introduction to IMS 2012

the abcs of z os system programming is an eleven volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information you need to start your research into z os and related subjects if you would like to become more familiar with z os in your current environment or if you are evaluating platforms to consolidate your e business applications the abcs collection will serve as a powerful learning tool the contents of the volumes are volume 1 introduction to z os and storage concepts tso e ispf jcl sdsf and z os delivery and installation volume 2 z os implementation and daily maintenance defining subsystems jes2 and jes3 lpa lnklst authorized libraries language environment and smp e volume 3 introduction to dfsms data set basics storage management hardware and software vsam system managed storage catalogs and dfsmstvs volume 4 communication server tcp ip and vtam volume 5 base and parallel sysplex system logger resource recovery services rrs global resource serialization grs z os system operations automatic restart management arm geographically dispersed parallel sysplex tm gpds availability in the zseries environment volume 6 introduction to security racf digital certificates and pki kerberos cryptography and z990 integrated cryptography zseries firewall technologies ldap enterprise identity mapping eim and firewall technologies volume 7 printing in a z os environment infoprint server and infoprint central volume 8 an introduction to z os problem diagnosis volume 9 z os unix system services volume 10 introduction to z architecture zseries processor design zseries connectivity lpar concepts hcd and hmc volume 11 capacity planning performance management rmf and smf volume 12 wlm volume 13 jes3

z/OS Version 2 Release 1 Technical Updates 2014-08-25

mainframe computers play a central role in the daily operations of many of the world s largest corporations and batch processing is a fundamental part of the workloads that run on the mainframe a large portion of the workload on ibm z os systems is processed in batch mode although several ibm redbooks publications discuss application modernization on the ibm z os platform this book specifically addresses batch processing in detail many different technologies are available in a batch environment on z os systems this book demonstrates these technologies and shows how the z os system offers a sophisticated environment for batch in this practical book we discuss a variety of themes that are of importance for batch workloads on z os systems and offer examples that you can try on your own system the audience for this book includes it architects and application developers with a focus on batch processing on the z os platform

ABCs of z/OS System Programming: Volume 5 2011-05-12

this ibm redbooks publication helps you install configure and maintain the ibm z15tm machine types 8561 and 8562 systems the z15 systems offers new functions that require a comprehensive understanding of the available configuration options this book presents configuration setup scenarios and describes implementation examples in detail this publication is intended for systems engineers hardware planners and anyone who needs to understand ibm z configuration and implementation readers should be familiar with ibm z technology and terminology for more information about the functions of the z15 systems see ibm z15 technical introduction sg24 8850 ibm z15 8561 technical guide sg24 8851 and ibm z15 8562 technical guide sg24 8852

Batch Modernization on z/OS 2012-07-26

there is enormous pressure today for businesses across all industries to cut costs enhance business performance and deliver greater value with fewer resources to take business analytics to the next level and drive tangible improvements to the bottom line it is important to manage not only the volume of data but the speed with which actionable findings can be drawn from a wide variety of disparate sources the findings must be easily communicated to those responsible for making both strategic and tactical decisions at the same time strained it budgets require that the solution be self service for everyone from dbas to business users and easily deployed to thin browser based clients business analytics hosted in the query management facilitytm qmftm on db2 and system z allow you to tackle these challenges in a practical way using new features and functions that are easily deployed across the enterprise and easily consumed by business users who do not have prior it experience this ibm redbooks publication provides step by step instructions on using these new features access to data that resides in any jdbc compliant data source olap access through xmla 150 new analytical functions graphical query interfaces and graphical reports graphical interactive dashboards ability to integrate qmf functions with third party applications support for the ibm db2 analytics accelerator a new qmf classic perspective in qmf for workstation ability to start qmf for tso as a db2 for z os stored procedure new metadata capabilities including er diagrams and capability to federate data into a single virtual source

IBM z15 Configuration Setup 2020-08-04

as ibm continues to enhance the functionality performance and availability of ibm db2 the utilities have made significant strides towards self management ibm db2 for z os utilities is leading the trend towards autonomies during the last couple of versions of db2 for z os and through the maintenance stream new features and enhancements have been delivered to further improve the performance and functionality of the db2 utilities the intent of this ibm redpapertm publication is to help db2 database

administrators db2 system programmers and anyone who runs db2 for z os utilities implement best practices the intent of this paper is not to replicate the db2 for z os utilities reference guide or the db2 for z os installation guide this paper describes and informs you how to apply real life practical preferred practices for the ibm db2 for z os utilities suite the paper concentrates on the enhancements provided by db2 utilities regardless of the version albeit some functions and features are available only in db2 12 for ibm z os

Complete Analytics with IBM DB2 Query Management Facility: Accelerating Well-Informed Decisions Across the Enterprise 2012-08-20

this ibm redbooks publication introduces the ibm interactive system productivity facility ispf productivity tool ipt version 7 release 1 for ibm z os ipt operates as a seamlessly integrated front end to ispf note the following points ipt functionality is available from any panel without a need to modify any ispf primary options menu all ipt functions are totally integrated ipt can perform almost any activity within ispf or internally invoke the function that can perform the task ipt combines separately provided ispf utility functions and new ispf productivity tool features into the object list olist and member selection list msl the resulting members datasets and object lists become powerful platforms where you can perform many tasks without navigating to other utilities ipt relates objects to applications in a similar manner to the way that a pc performs object linking and embedding ole by extending the dataset objects that are used by ispf to other object classes ipt lets you specify the object to be processed and the action that is performed such as edit or browse the facility that is appropriate to the object class for the action that you have requested is invoked automatically ipt provides extensive search capabilities that are both rapid and intuitive you can easily search for volumes datasets members and text within members ispf productivity tool also furnishes automatic drill down system navigation to examine volumes datasets and members ipt provides a menu driven facility to display and recover all of the deleted members of a partitioned dataset pds library ipt extends the ispf action bar with options that provide access to new functionality so that you do not have to learn new commands or syntax in addition to the ispf point and shoot capabilities ipt provides new concepts such as hotbars user defined fields that execute commands field sensitive areas in msls and olists automatic recognition of a dataset name on any ispf panel as a parameter to browse edit or view or parameters within any time sharing option tso command ipt provides integrated and enhanced ibm software configuration and library manager sclm support within the standard member and dataset lists sclm is a source library management component of ispf that provides change control multiple source versions auditing a built in make facility and automatic check in sign out using standard libraries pds and partitioned dataset extended pdse ipt includes built in interfaces to various ibm and isv products ipt includes a new batch utility that provides a seamlessly integrated front end to the ibm iebcopy utility in addition to supporting all iebcopy standard functionality it includes additional major enhancements this book is intended as a supplement to existing product manuals it opens with an overview of the main ipt concepts and facilities and follows with detailed chapters which are

each dedicated to a major ipt function practical scenarios accompanied by window captures and coding examples demonstrate how both experienced ispf users and those new to the ibm z os environment can benefit from the ipt enhanced functionality in each case

Db2 for z/OS Utilities in Practice 2018-09-25

db2 9 for z os is an exciting new version with many improvements in performance and little regression db2 v9 improves availability and security as well as adds greatly to sql and xml functions optimization improvements include more sql functions to optimize improved statistics for the optimizer better optimization techniques and a new approach to providing information for tuning v8 sql procedures were not eligible to run on the ibm system z9 integrated information processor ziip but changing to use the native sql procedures on db2 v9 makes the work eligible for ziip processing the performance of varying length data can improve substantially if there are large numbers of varying length columns several improvements in disk access can reduce the time for sequential disk access and improve data rates the key db2 9 for z os performance improvements include reduced cpu time in many utilities deep synergy with ibm system z hardware and z os software improved performance and scalability for inserts and lobs improved sql optimization ziip processing for remote native sql procedures index compression reduced cpu time for data with varying lengths and better sequential access virtual storage use below the 2 gb bar is also improved this ibm redbooks publication provides an overview of the performance impact of db2 9 for z os especially performance scalability for transactions cpu and elapsed time for queries and utilities we discuss the overall performance and possible impacts when moving from version to version we include performance measurements that were made in the laboratory and provide some estimates keep in mind that your results are likely to vary as the conditions and work will differ in this book we assume that you are familiar with db2 v9 see db2 9 for z os technical overview sg24 7330 for an introduction to the new functions

Improving Productivity with IBM ISPF Productivity Tool V7.1 for z/OS 2013-04-24

the abcs of ibm z os system programming is a 13 volume collection that provides an introduction to the z os operating system and the hardware architecture whether you are a beginner or an experienced system programmer the abcs collection provides the information that you need to start your research into z os and related subjects whether you want to become more familiar with z os in your current environment or you are evaluating platforms to consolidate your online business applications the abcs collection will serve as a powerful technical tool volume 1 provides an updated understanding of the software and ibm zseries architecture and explains how it is used together with the z os operating system this includes the main components of z os

needed to customize and install the z/os operating system this edition has been significantly updated and revised

DB2 9 for z/OS Performance Topics 2012-09-28

even as spending on digital transformation continues to skyrocket mainframes nevertheless have major advantages for global enterprises these systems still process huge amounts of information and allow for highly secure processing in this practical book author tom taulli shows software developers how to pursue a hybrid approach by integrating traditional mainframes and applications with modern digital systems by the end of the book you ll have a solid understanding of the mainframe architecture and ecosystem including core concepts and technologies such as cobol jcl db2 vsam and cics you ll learn how to blend in newer technologies such as the cloud ai and machine learning and the use of microservices this handbook is indispensable for enterprises looking to thrive in the new digital world learn strategies and approaches for mainframe devops update and maintain existing mainframe code and analyze and resolve common errors apply modern approaches to the mainframe including microservices apis cloud and ai and machine learning work with datasets and databases and put together effective reports understand how to work with modern cloud systems like aws for pursuing data migration

ABCs of IBM z/OS System Programming 2018-01-22

this ibm redbooks publication is intended for ibm cics system programmers and ibm z architects it describes how to deploy and manage java ee 7 web based applications in an ibm cics liberty jvm server and access data on ibm db2 for ibm z/os and ibm mq for z/os sub systems in this book we describe the key steps to create and install a liberty jvm server within a cics region we then describe how to best use the different deployment techniques for java ee applications and the specific considerations when deploying applications that use jdbc jms and the new cics link to liberty api finally we describe how to secure web applications in cics liberty including transport level security and request authentication and authorization by using ibm racf and ldap registries information is also provided about how to build a high availability infrastructure and how to use the logging and monitoring functions that are available in the cics liberty environment this book is based on ibm cics transaction server cics ts v5.4 that uses the embedded ibm websphere application server liberty technology it is also applicable to cics ts v5.3 with the fixes for the continuous delivery apar pi77502 applied sample applications are used throughout this publication and are freely available for download from the ibm cicsdev github organization along with detailed deployment instructions

Modern Mainframe Development 2022-03-16

db2 developer s guide is the field s 1 go to source for on the job information on programming and administering db2 on ibm z os mainframes now three time ibm information champion craig s mullins has thoroughly updated this classic for db2 v9 and v10 mullins fully covers new db2 innovations including temporal database support hashing universal tablespaces purexml performance security and governance improvements new data types and much more using current versions of db2 for z os readers will learn how to build better databases and applications for cics ims batch caf and rrsaf write proficient code optimized db2 sql implement efficient dynamic and static sql applications use binding and rebinding to optimize applications efficiently create administer and manage db2 databases and applications design build and populate efficient db2 database structures for online batch and data warehousing improve the performance of db2 subsystems databases utilities programs and sql stat db2 developer s guide sixth edition builds on the unique approach that has made previous editions so valuable it combines condensed easy to read coverage of all essential topics information otherwise scattered through dozens of documents detailed discussions of crucial details within each topic expert field tested implementation advice sensible examples

Liberty in IBM CICS: Deploying and Managing Java EE Applications 2018-03-29

this ibm redbooks publication will help you install configure and use ibm infosphere optimtm workload replay infosphere workload replay a web based tool that lets you capture real production sql workload data and then replay the workload data in a pre production environment with infosphere workload replay you can set up and run realistic tests for enterprise database changes without the need to create a complex client and application infrastructure to mimic your production environment the publication goes through the steps to install and configure the infosphere workload replay appliance and related database components for ibm db2 for linux unix and windows and for db2 for ibm z os the capture replay and reporting process including user id and roles management is described in detail to quickly get you up and running ongoing operations such as appliance health monitoring starting and stopping the product and backup and restore in your day to day management of the product extensive troubleshooting information and information about how to integrate infosphere workload replay with other infosphere products are covered in separate chapters

DB2 Developer's Guide 2012-05-01

this ibm redbooks publication provides system administrators and developers with the knowledge to configure an ibm websphere application server version 8 runtime environment to package and deploy applications and to perform ongoing management of the websphere environment as one in a series of ibm redbooks publications and ibm redpapers publications for v8 the entire series is designed to give you in depth information about key websphere application server features in this book we provide a detailed exploration of the websphere application server v8 runtime administration process this book includes configuration and administration information for websphere application server v8 and websphere application server network deployment v8 on distributed platforms and websphere application server for z os v8 the following publications are prerequisites for this book websphere application server v8 0 technical overview redp 4756 ibm websphere application server v8 concepts planning and design guide sg24 7957

Getting Started with IBM InfoSphere Optim Workload Replay for DB2 2015-01-18

this ibm redbooks publication is a companion to ibm system storage business continuity part 1 planning guide sg24 6547 we assume that the reader of this book has understood the concepts of business continuity planning described in that book in this book we explore ibm system storage solutions for business continuity within the three segments of continuous availability rapid recovery and backup and restore we position these solutions within the business continuity tiers we describe in general the solutions available in each segment then present some more detail on many of the products in each case the reader is pointed to sources of more information

WebSphere Application Server V8: Administration and Configuration Guide 2011-11-22

ibm information management system imstm provides leadership in performance reliability and security to help you implement the most strategic and critical enterprise applications ims also keeps pace with the it industry ims enterprise suite 2 1 and ims tools continue to evolve to provide value and meet the needs of enterprise customers with ims 12 integration and open access improvements provide flexibility and support business growth requirements manageability enhancements help optimize system staff productivity by improving ease of use and autonomic computing facilities and by providing increased availability scalability

improvements have been made to the well known performance efficiency availability and resilience of ims by using 64 bit storage ibm ims enterprise suite for z os v2 1 components enhance the use of ims applications and data in this release components either orderable or downloaded from the web deliver innovative new capabilities for your ims environment they enhance connectivity expand application development extend standards and tools for a service oriented architecture soa ease installation and provide simplified interfaces this ibm redbooks publication explores the new features of ims 12 and enterprise suite 2 1 and provides an overview of the ims tools in addition this book highlights the major new functions and facilitates database administrators in their planning for installation and migration

IBM System Storage Business Continuity: Part 2 Solutions Guide 2009-06-09

in this ibm redbooks publication you will gain an appreciation of the ibm cics transaction gateway cics tg product suite based on key criteria such as capabilities scalability platform cics server support application language support and licensing model matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available in this book you will gain an understanding of those choices and will be capable of choosing the appropriate cics connection protocol apis for the applications and security options you will understand the services available to the application developer when using a chosen protocol you will then learn about how to implement cics tg solutions taking advantage of the latest capabilities such as ipic connectivity high availability and dynamic server selection specific scenarios illustrate the usage of cics tg for ibm z os and cics tg for multiplatforms with cics transaction server for z os and ibm websphere application server including connections in cics configuring simple end to end connectivity all platforms with verification for remote and local mode applications and adding security xa support and high availability

IBM IMS Version 12 Technical Overview 2011-10-25

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 spectrumtm family ibm flashsystem disk and tape as well as virtualized solutions such 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 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

**The Complete Guide to CICS Transaction Gateway Volume 1 Configuration
and Administration *2014-08-08***

IBM System Storage Solutions Handbook *2016-07-15*

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