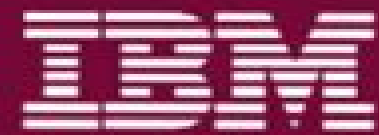
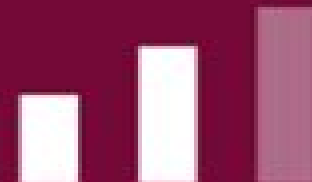
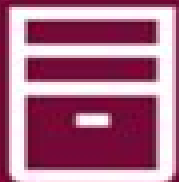


z/OS REXX Programming



IBM Systems
Intermediate



Ibm Rexx Manual Z Os

**Mario Bezzi, Neil O'Connor, Sharon
Phillips, Ulrich Thiemann, Helen
Tsang, IBM Redbooks**

Ibm Rexx Manual Z Os:

Exploiting the IBM Health Checker for z/OS Infrastructure Mario Bezzi, Neil O'Connor, Sharon Phillips, Ulrich Thiemann, Helen Tsang, IBM Redbooks, 2010-12-22 The IBM Health Checker for z OS also identified in this book as IBM Health Checker is a key component of the z OS operating system whose objective is to identify potential problems before they impact the system s availability To do this it continuously checks many current active z OS and sysplex settings and compares them with those suggested by IBM or defined by you The IBM Health Checker for z OS is made of two parts A framework that provides check management and execution services It supports check development by IBM independent software vendors ISVs and users Individual checks that look for specific z OS settings and definitions checking for potential problems Customers can use the IBM Health Checker for z OS infrastructure to run their own checks extending the reach of IBM Health Checker for z OS to environment specific settings This IBM Redpaper™ publication introduces the IBM Health Checker and describes how to activate and use it It teaches you how to exploit the IBM Health Checker infrastructure to run custom checks and how to identify good candidates for writing your own checks This publication also provides a number of sample checks to give you a good start creating custom checks for your environment *IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 1: Base Functions, Connectivity, and Routing* Rufus P. Credle Jr., Uma Maheswari Kumaraguru, Gilson Cesar de Oliveira, Micky Reichenberg, Georg Senfleben, Rutsakon Techo, Maulide Xavier, IBM Redbooks, 2015-05-04 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The IBM z OS Communications Server TCP IP Implementation series provides understandable step by step guidance for enabling the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It introduces z OS Communications Server TCP IP describes the system resolver showing implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP IP base functions connectivity routing virtual MAC support and sysplex subplexing IBM z/OS V1R13 Communications Server TCP/IP

Implementation: Volume 1 Base Functions, Connectivity, and Routing Mike Ebbers,Rama Ayyar,Octavio L. Ferreira,Yohko Ojima,Gilson Cesar de Oliveira,Mike Riches,Maulide Xavier,IBM Redbooks,2012-02-03 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP This IBM Redbooks publication is for people who install and support z OS Communications Server It introduces z OS Communications Server TCP IP discusses the system resolver showing implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP IP base functions connectivity routing virtual MAC support and sysplex subplexing

IBM z/OS V1R12 Communications Server TCP/IP Implementation: Volume 1 Base Functions, Connectivity, and Routing Mike Ebbers,Rama Ayyar,Octavio L. Ferreira,Gazi Karakus,Yukihiko Miyamoto,Joel Porterie,Andi Wijaya,IBM Redbooks,2012-11-06 For more than 40 years IBM mainframes have supported an extraordinary portion of the world s computing work providing centralized corporate databases and mission critical enterprise wide applications The IBM System z the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP IP Internet protocol suite TCP IP is a large and evolving collection of communication protocols managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP IP protocol suite has become the foundation for the set of technologies that form the basis of the Internet The convergence of IBM mainframe capabilities with Internet technology connectivity and standards particularly TCP IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP IP implementations The z OS Communications Server TCP IP Implementation series provides understandable step by step guidance about how to enable the most commonly used and important functions of z OS Communications Server TCP IP In this IBM Redbooks publication we provide an introduction to z

OS Communications Server TCP/IP We then discuss the system resolver showing the implementation of global and local settings for single and multi stack environments We present implementation scenarios for TCP/IP Base functions Connectivity Routing Virtual MAC support and sysplex subplexing

IBM z/OS V2R2 Communications Server TCP/IP

Implementation Volume 1: Base Functions, Connectivity, and Routing Bill White, Octavio Ferreira, Teresa

Missawa, Teddy Sudewo, IBM Redbooks, 2016-11-30 For more than 50 years IBM mainframes have supported an extraordinary portion of the world's computing work providing centralized corporate databases and mission critical enterprise wide applications IBM z/OS Systems the latest generation of the IBM distinguished family of mainframe systems has come a long way from its IBM System 360 heritage Likewise its IBM z/OS operating system is far superior to its predecessors in providing among many other capabilities world class and state of the art support for the TCP/IP internet protocol suite TCP/IP is a large and evolving collection of communication protocols that is managed by the Internet Engineering Task Force IETF an open volunteer organization Because of its openness the TCP/IP protocol suite has become the foundation for the set of technologies that form the basis of the internet The convergence of IBM mainframe capabilities with internet technology connectivity and standards particularly TCP/IP is dramatically changing the face of information technology and driving requirements for even more secure scalable and highly available mainframe TCP/IP implementations The IBM z/OS Communications Server TCP/IP Implementation series provides understandable step by step guidance for enabling the most commonly used and important functions of z/OS Communications Server TCP/IP This IBM Redbooks publication is for people who install and support z/OS Communications Server It introduces z/OS Communications Server TCP/IP describes the system resolver and shows the implementation of global and local settings for single and multi stack environments It presents implementation scenarios for TCP/IP base functions connectivity routing and subplexing

Introduction to the New Mainframe: IBM z/VSE Basics Mike Ebbers, Wolfgang Bosch, Hans Joachim Ebert, Helmut Hellner, Jerry Johnston, Marco Kroll, Wilhelm Mild, Wayne O'Brien, Bill Ogden, Ingolf Salm, Joerg Schmidbauer, Martin Walbruehl, IBM Redbooks, 2016-03-02 This IBM Redbooks publication is based on the book Introduction to the New Mainframe z/OS Basics SG24 6366 which was produced by the International Technical Support Organization ITS/O Poughkeepsie Center It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer For optimal learning students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture operating systems data management or data communications They should also have successfully completed courses in one or more programming languages and be PC literate This textbook can also be used as a prerequisite for courses in advanced topics or for internships and special studies It is not intended to be a complete text covering all aspects of mainframe operation It is also not a reference book that discusses every feature and option of the mainframe facilities Others who can benefit from this course include experienced

data processing professionals who have worked with non mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment As we go through this course we suggest that the instructor alternate between text lecture discussions and hands on exercises Many of the exercises are cumulative and are designed to show the student how to design and implement the topic presented The instructor led discussions and hands on exercises are an integral part of the course and can include topics not covered in this textbook In this course we use simplified examples and focus mainly on basic system functions Hands on exercises are provided throughout the course to help students explore the mainframe style of computing At the end of this course you will be familiar with the following information Basic concepts of the mainframe including its usage and architecture Fundamentals of IBM z VSE VSE an IBM zTM Systems entry mainframe operating system OS An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced specialized areas of z VSE such as system administration or application programming ABCs of IBM z/OS System Programming Volume 1 Lydia Parziale,Luiz Fadel,Stanley Jon,IBM Redbooks,2018-01-22 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

IBM z/OS Management Facility V2R3 Redelf Janssen,Tobias Rotthove,IBM Redbooks,2019-12-13 This IBM Redbooks publication helps you install configure and use the IBM z OS Management Facility z OSMF z OSMF is a product for z OS that simplifies optimizes and modernizes the z OS system programmer experience z OSMF delivers solutions in a task oriented web browser based user interface with integrated user assistance The goal of z OSMF is to improve system programmer productivity and make functions easier to understand and use This improvement makes system programmers more productive as quickly as possible with the least amount of training You can automate tasks reduce the learning curve and improve productivity through a modern simplified and intuitive task based browser based interface z OSMF is aimed at a mixed skills workforce It is suited to professionals who are new to z OS and those who are skilled in z OS Each professional has their own needs and faces their own challenges Novice system programmer might need to understand the big picture and how procedures are done Novices also need access to documentation about procedures and tasks and implement them according to the rules of the enterprise Experienced system programmers are familiar with tasks and procedures Therefore

the goal is to make their work less error prone and easier This goal allows them to be more productive and contribute more to their business Although z OS delivered simplification since it was introduced z OSMF brings a new dimension and focus to simplification z OSMF simplifies and modernizes the user experience and helps make pertinent information readily available and easily accessible

z/OS Version 1 Release 13 Implementation Paul Rogers,Diniz Bortolotto,Robert Hering,George Kozakos,Lutz Kuehner,Jean-Louis Lafitte,Diana Nakajima,Paulo Nascimento,Nelson Oliveira,Gil Peleg,Giancarlo Rodolfi,Anthony Soares,Joao Zanon,IBM Redbooks,2012-03-27 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 DFSMSOam DFSMSHsm 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

z/OS Version 2 Release 1 Technical Updates Karan Singh,Paul-Robert Hering,George Kozakos,Lutz Kuehner,Jacqueline Mourão,Diana Nakajima,Nelson Oliveira,Gil Peleg,Alvaro Salla,Yu Uchida,Antonio Vilarins,IBM Redbooks,2014-08-25 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 [zOS JCL \(Job Control Language\)](#) Gary DeWard Brown,2002-10-01 Discusses new features provided by zOS such as improved security support for Intelligent Resource Director and support for a 64 bit real storage Explains how the system configuration in zOS is made easier by a new interface that uses wizards to input desired settings *z/OS Distributed File Service zSeries File System Implementation z/OS V1R13* Paul Rogers,Robert Hering,IBM Redbooks,2012-10-18 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 z/OS V2.1 DFSMS Technical Update Mary Lovelace,Jose Dovidauskas,Anthony Fletcher,Gert Laumann,Norbert Schlumberger,IBM Redbooks,2014-09-15 Each release of IBM z OS 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 integrated into z OS V2 1 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 This book is 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 **Extending z/OS System Management Functions with IBM zAware** Frank Kyne,Karan Singh,Karla Arndt,Stephen Barton,Mark Noonan,Ryotaro Sawada,IBM Redbooks,2013-08-01 This IBM Redbooks publication explains the capabilities of the IBM System z Advanced Workload Analysis Reporter IBM zAware and shows how you can use it as an integral part of your existing System z management tools IBM zAware is an integrated self learning analytics solution

for IBM z OS that helps identify unusual system behavior in near real time It is designed to help IT personnel improve problem determination so they can restore service quickly and improve overall availability The book gives you a conceptual description of the IBM zAware appliance It will help you to understand how it fits into the family of IBM mainframe system management tools that include Runtime Diagnostics Predictive Failure Analysis PFA IBM Health Checker for z OS and z OS Management Facility z OSMF You are provided with the information you need to get IBM zAware up and running so you can start to benefit from its capabilities immediately You will learn how to manage an IBM zAware environment and see how other products can use the IBM zAware Application Programming Interface to extract information from IBM zAware for their own use The target audience includes system programmers system operators configuration planners and system automation analysts

IBM z/OS V2R2: Unix Systems Services Keith Winnard,Paul Robert Hering,IBM Redbooks,2015-12-16 This IBM Redbooks publication familiarizes you with the technical changes that were introduced into the UNIX System Services areas with IBM z OS V2R2 This book is one of a series of IBM Redbooks publications that take a modular approach to providing information about the updates that are included within z OS V2R2 This approach has the following goals Provide modular content Group the technical changes into a topic Provide a more streamlined way of finding relevant information that is based on the topic We hope you find this approach useful We value your feedback

Implementing REXX Support in SDSF Lydia Parziale,Amy Miu,Richard Levey,Ludvik Drobnic Martinez,Dario Facchinetti,IBM Redbooks,2007-06-26 The Restructured Extended Executor REXX language is a procedural language that allows you to write programs and algorithms in a clear and structural way It is an interpreted and compiled language and you do not have to compile a REXX command list before executing it With IBM z OS V1 9 you can harness the versatility of REXX to interface and interact with the power of SDSF A new function called REXX with SDSF is available that provides access to SDSF functions through the use of the REXX programming language This REXX support provides a simple and powerful alternative to using SDSF batch This IBM Redbooks publication describes the new support and provides sample REXX execs that exploit the new function and that perform real world tasks related to operations systems programming system administration and automation This book complements the SDSF documentation which is primarily reference information The audience for this book includes operations support system programmers automation support and anyone with a desire to access SDSF using a REXX interface

IBM TS7700 Release 4.2 Guide Larry Coyne,Derek Erdmann,Joe Hew,Sosuke Matsui,Alberto Barajas Ortiz,Aderson Pacini,Michael Scott,Chen Zhu,IBM Redbooks,2019-04-19 This IBM Redbooks publication covers IBM TS7700 R4 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on over 20 years of virtual tape experience the TS7760 now supports the ability to store virtual tape volumes in an object store The TS7700 has supported off loading to physical tape for over two decades Off loading to physical tape behind a TS7700 is utilized by

hundreds of organizations around the world Using the same hierarchical storage techniques the TS7700 can also off load to object storage Given object storage is cloud based and accessible from different regions the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of the release of this document the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 To learn about the TS7760 cloud storage tier function planning implementation best practices and support see IBM Redpaper IBM TS7760 R4 2 Cloud Storage Tier Guide redp 5514 at <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular scalable and high performance architecture for mainframe tape virtualization for the IBM Z environment It is a fully integrated tiered storage hierarchy of disk and tape This storage hierarchy is managed by robust storage management microcode with extensive self management capability It includes the following advanced functions Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost time and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries drives and media TS7700 delivers the following new capabilities TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8 way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4 8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library The TS7760 models are based on high performance and redundant IBM POWER8 technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

IBM Problem Determination Tools for z/OS Rufus Credle,Vikram Manchala,Dana Shelton,Kenichi Yoshimura,IBM Redbooks,2013-01-27 IBM Problem Determination PD Tools consists of a core group of IBM products that are designed to work with compilers and run times to provide a start to finish development solution for the IT professional This IBM Redbooks publication provides you with an introduction to the tools guidance for program preparation to use with them an overview of their integration and several scenarios for their use If an abend occurs during testing Fault Analyzer enables the programmer to quickly and easily pinpoint the abending location and optionally the failing line of code Many times this information is all the programmer requires to correct the problem However it might be necessary to delve a little deeper into the code to figure out the problem Debug Tool allows the programmer to step through the code at whatever level is required to determine where the error was introduced or encountered After the code or data is corrected the same process is followed again until no errors are encountered However volume testing or testing with multiple terminals is sometimes required to

ensure real world reliability Workload Simulator can be used to perform this type of testing After all of the tests are completed running the application by using Application Performance Analyzer can ensure that no performance bottlenecks are encountered It also provides a baseline to ensure that future enhancements do not introduce new performance degradation into the application This publication is intended for z OS application developers and system programmers

DFSMSHsm Fast Replication Technical Guide Keith Winnard, Jeanne Vangness, IBM Redbooks, 2015-05-12

DFSMSHsm fast replication provides DFSMSHsm management for the use of volume level fast replication Fast replication is made possible by using the FlashCopy capability of storage servers With this capability a set of storage groups can be defined as a copy pool The volumes in this pool are processed collectively creating by fast replication backup versions that are managed by DFSMSHsm Recovery can be performed at the volume or copy pool level This capability is designed to work specifically with DB2 Version 8 or later With DFSMSHsm fast replication the backup and recovery of DB2 copy pools can be managed by DFSMSHsm DFSMSHsm fast replication provides a quick easy to use backup and recovery solution This IBM Redbooks publication consists of a technical overview of the DFSMSHsm fast replication function in z OS V1R12 Data Facility Storage Management Subsystem DFSMS It provides you with the information that you need to understand and evaluate the function with practical implementation hints and tips This book is written for storage professionals database administrators and system programmers who have experience with the components of DFSMS It provides sufficient information for you to implement the DFSMSHsm fast replication function in your storage environment IBM TS7700 Release 5.2.2 Guide Larry Coyne, Yuki Asakura, Ole Asmussen, Nielson 'Nino' de Carvalho, Derek Erdmann, Monica Falcone, Rin Fujiwara, Nobuhiko Furuya, Lourie Goodall, Joe Hew, Kousei Kawamura, Tony Makepeace, Erich Moraga, Stefan Neff, Tomoaki Ogino, Alberto Barajas Ortiz, Aderson Pacini, Trinidad Armando Rangel Ruiz, Michael Scott, Joe Swingler, Taisei Takai, Nao Takemura, Takahiro Tsuda, Chen Zhu, IBM Redbooks, 2022-07-07 This IBM Redbooks publication covers IBM TS7700 R5 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on 25 years of experience the R5 2 release includes many features that enable improved performance usability and security Highlights include IBM TS7700 Advanced Object Store an all flash TS7770 grid resiliency enhancements and Logical WORM retention By using the same hierarchical storage techniques the TS7700 TS7770 and TS7760 can also off load to object storage Because object storage is cloud based and accessible from different regions the TS7700 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of this writing the TS7700C supports the ability to off load to IBM Cloud Object Storage Amazon S3 and RSTOR This publication explains features and concepts that are specific to the IBM TS7700 as of release R5 2 The R5 2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements IBM DS8000 Object Storage enhancements Management Interface dual control security and other smaller enhancements The R5 2 microcode level can be installed on the IBM

TS7770 and IBM TS7760 models only Note The latest Release 5.2 was split into two phases R5.2 Phase 1 also referred to as R5.2 Phase 2 and R TS7700 provides tape virtualization for the IBM z environment Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world Tape virtualization can help satisfy the following requirements in a data processing environment New and existing capabilities of the TS7700 5.2.2 release includes the following highlights Eight way Grid Cloud which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects Grid access to all logical volume and object data that is independent of where it exists An all flash TS7770 option for improved performance Full Advanced Object Store Grid Cloud support of DS8000 Transparent Cloud Tier Full AES256 encryption for data that is in flight and at rest Tight integration with IBM Z and DFSMS policy management DS8000 Object Store AES256 in flight encryption and compression Regulatory compliance through Logical WORM and LWORM Retention support Cloud Storage Tier support for archive logical volume version and disaster recovery Optional integration with physical tape 16 Gb IBM FICON throughput that exceeds 5 GBps per TS7700 cluster Grid Resiliency Support with Control Unit Initiated Reconfiguration CUIR support IBM Z hosts view up to 3,968 common devices per TS7700 grid TS7770 Cache On demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1160 IBM TS1150 and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library The TS7770 models are based on high performance and redundant IBM POWER9™ technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

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