



# Ibm Manual Z Os

**Franz Lanz**



## **Ibm Manual Z Os:**

**IBM z/OS V2R1 Communications Server TCP/IP Implementation Volume 4: Security and Policy-Based Networking** Rufus P. Credle Jr.,Uma Maheswari Kumaraguru,Gilson Cesar de Oliveira,Micky Reichenberg,Georg Senfleben,Rutsakon Techo,Maulide Xavier,IBM Redbooks,2016-02-10 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 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 ever 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 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 explains how to set up security for your z OS networking environment Network security requirements have become more stringent and complex Because many transactions are from unknown users and untrusted networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity Also because security technologies are complex and can be confusing we include helpful tutorial information in the appendixes of this book [IBM z/OS V2R2 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking](#) Bill White,Octavio Ferreira,Teresa Missawa,Teddy Sudewo,IBM Redbooks,2017-03-21 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 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 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 ever 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 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 explains how to set up security for your z/OS networking environment. With the advent of TCP/IP and the Internet, network security requirements have become more stringent and complex. Because many transactions are from unknown users and untrusted networks such as the Internet, careful attention must be given to host and user authentication, data privacy, data origin authentication, and data integrity. Also, because security technologies are complex and can be confusing, we include helpful tutorial information in the appendixes of this book. For more information about z/OS Communications Server base functions, standard applications, and high availability, see the other following volumes in the series: IBM z/OS V2R2 Communications Server TCP/IP Implementation Volume 1: Base Functions, Connectivity, and Routing (SG24-8360); IBM z/OS V2R2 Communications Server TCP/IP Implementation Volume 2: Standard Applications (SG24-8361); IBM z/OS V2R2 Communications Server TCP/IP Implementation Volume 3: High Availability, Scalability, and Performance (SG24-8362). This book does not duplicate the information in these publications. Instead, it complements those publications with practical implementation scenarios that might be useful in your environment. For more information about at what level a specific function was introduced, see z/OS Communications Server New Function Summary (GC31-8771).

*IBM z/OS V1R13 Communications Server TCP/IP Implementation: Volume 4 Security and Policy-Based Networking* Mike Ebberts, Rama Ayyar, Octavio L. Ferreira, Yohko Ojima, Gilson Cesar de Oliveira, Mike Riches, Maulide Xavier, IBM Redbooks, 2016-02-10. 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 IBM 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 explains how to set up security for the z/OS networking environment. Network security requirements have become more stringent and complex. Because many transactions come from unknown users and untrusted

networks careful attention must be given to host and user authentication data privacy data origin authentication and data integrity We also include helpful tutorial information in the appendixes of this book because security technologies can be quite complex

*Mainframe from Scratch: Hardware Configuration and z/OS Build* Keith Winnard,Bertus Bekker,Rafael Carvalho A. Lima,Nilkanth Patwardhan,Zheng Zhao,Hui Zhou,IBM Redbooks,2016-12-22 This IBM Redbooks publication helps you install customize and configure an IBM z13 and build z OS environments This book is intended for those readers who are new to the platform and are faced with the task of installing a mainframe for the first time By the term mainframe in this instance we refer to the hardware and the system software The intention is to show you how this installation can be done Volume 1 shows you how we set up a mainframe and installed z OS V2R2 and IBM DB2 V11 The starting point is a basic hardware configuration of an IBM z13 and DS8000 as shipped from the factory Volume 1 shows you how the following milestones were achieved Creating a configuration for the Customized Offering Driver COD system Stand alone restoration of the COD Expanding the configuration Installing the z OS V2R2 ServerPac Loading and running IVPs for z OS ServerPac Installing DB2 ServerPac and IVPs This publication includes figures that show you how the initial builds were achieved For this book we designed a scenario and show you how to build that scenario step by step Although your requirements likely differ from our scenario we intend to provide you with an example to show you how it can be done and samples and downloadable materials that you can choose to modify to bring you closer to meeting your needs This book is divided into the following parts Part 1 Overview and Planning In this part we introduce you to how we approached the project Part 2 Configuration and builds In this part we describe the tasks that must be completed to create the initial build for the scenario that is described in Part 1

**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

*Batch Modernization on z/OS* Mike Ebbers,Elsie Ramos,Snehal Antani,Patrick Bruinsma,Manuel Mueller,Martin

Packer,Christian Strauer,Sridhar Sudarsan,Susann Thomas,Andreas Wagner,Janet Wall,IBM Redbooks,2012-07-26

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 **DB2 Developer's Guide**

Craig S. Mullins,2012-05-01 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 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 **IBM GDPS: An Introduction to Concepts and Capabilities** Lydia Parziale,Chris Shaffer,John Thompson,Kristina Gryaznova,Marie France Narbey,Nielson de Carvalho,Vijay Radhakrishman,Celia Grosch,IBM

Redbooks,2022-04-13 This IBM Redbooks publication presents an overview of the IBM Geographically Dispersed Parallel Sysplex IBM GDPS offerings and the roles they play in delivering a business IT resilience solution The book begins with general concepts of business IT resilience and disaster recovery along with issues that are related to high application availability data integrity and performance These topics are considered within the framework of government regulation increasing application and infrastructure complexity and the competitive and rapidly changing modern business environment

Next it describes the GDPS family of offerings with specific reference to how they can help you achieve your defined goals for disaster recovery and high availability Also covered are the features that simplify and enhance data replication activities the prerequisites for implementing each offering and tips for planning for the future and immediate business requirements Tables provide easy to use summaries and comparisons of the offerings The extra planning and implementation services available from IBM also are explained Then several practical client scenarios and requirements are described along with the most suitable GDPS solution for each case The introductory chapters of this publication are intended for a broad technical audience including IT System Architects Availability Managers Technical IT Managers Operations Managers System Programmers and Disaster Recovery Planners The subsequent chapters provide more technical details about the GDPS offerings and each can be read independently for those readers who are interested in specific topics Therefore if you read all of the chapters be aware that some information is intentionally repeated

[IBM z/OS Mainframe Security and Audit Management Using the IBM Security zSecure Suite](#) Axel Buecker,Michael Cairns,Monique Conway,Mark S. Hahn,Deborah McLemore,Jamie Pease,Lili Xie,IBM Redbooks,2011-08-18 Every organization has a core set of mission critical data that must be protected Security lapses and failures are not simply disruptions they can be catastrophic events and the consequences can be felt across the entire organization As a result security administrators face serious challenges in protecting the company s sensitive data IT staff are challenged to provide detailed audit and controls documentation at a time when they are already facing increasing demands on their time due to events such as mergers reorganizations and other changes Many organizations do not have enough experienced mainframe security administrators to meet these objectives and expanding employee skillsets with low level mainframe security technologies can be time consuming The IBM Security zSecure suite consists of multiple components designed to help you administer your mainframe security server monitor for threats audit usage and configurations and enforce policy compliance Administration provisioning and management components can significantly reduce administration contributing to improved productivity faster response time and reduced training time needed for new administrators This IBM Redbooks publication is a valuable resource for security officers administrators and architects who wish to better understand their mainframe security solutions

[IBM HTTP Server on z/OS: Migrating from Domino-powered to Apache-powered](#) Edward McCarthy,IBM Redbooks,2017-07-13 Users of IBM z OS for the past several years had a choice of two HTTP Servers that they can use Now one server became strategic while the other is no longer supported with z OS V2.2 IHS powered by Apache supports IPv6 and 64 bit execution and includes security authentication and authorization capabilities that are similar to those capabilities that are provided in IHS powered by IBM Domino This IBM Redpaper™ publication is aimed at technicians who are responsible for planning and deploying system software It provides information on about the various features that are available in IBM HTTP Server powered by Apache It also provides guidance about how to upgrade from the old product to the new product

**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 **Best Practices for DS8000 and z/OS HyperSwap with Copy Services Manager** Thomas Luther,Alexander Warmuth. Marcelo Takakura,IBM Redbooks,2019-06-21 Many IBM z OS customers require their applications to be available 24x7 Whether the business requirements are high availability HA disaster recovery DR or business continuity IBM HyperSwap technology can provide an adequate solution HyperSwap is the industry standard and is provided as several different implementation options to meet the various business needs of the IBM System z and z OS customer base IBM Copy Services Manager CSM enables you to manage z OS HyperSwap and helps you manage planned and unplanned actions in an z OS environment from an open systems environment This IBM Redbooks publication provides best practices for the planning implementing integrating and managing z OS HyperSwap with CSM [z/OS V1.12 DFSMS Technical Update](#) Mary Lovelace,Werner Bauer,Juliana Eneas,Michele Lanthier,Norbert Schlumberger,Jeanne Vangsness,Gerhard Weisshaar,IBM Redbooks,2011-09-30 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      **User's Guide** Franz Lanz,2015-09-14 For all users who work with ISPF on z OS MVS The readers of this book will learn how to use the ISPF professionally in their daily work in z OS to quickly reach optimal results Detailed description of TSO ISPF logon processes Use of ISPF command tables DSLIST Optimal use of Data Set Lists Use of Object Action Workplace as an optimal work surface Detailed description on use of the ISPF editor Utilities for allocated data sets Secret commands usable in ISPF Descriptions for using the downloadable SMART ISPF Utilities The author gives many useful hints and tips based on his extensive experience working with ISPF The applications of all the major ISPF commands are demonstrated by examples from practice The book can be used as a teaching aid as well as a practical guide for daily work      [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      *Mainframe Basics for Security Professionals* Ori Pomerantz,Barbara Vander Weele,Mark Nelson,Tim Hahn,2007-12-28 Leverage Your Security Expertise in IBM System zTM Mainframe Environments For over 40 years the IBM mainframe has been the backbone of the world s largest enterprises If you re coming to the IBM System z mainframe platform from UNIX Linux or Windows you need practical guidance on leveraging its unique security capabilities Now IBM experts have written the first authoritative book on mainframe security specifically designed to build on your experience in other environments Even if you ve never logged onto a mainframe before this book will teach you how to run today s z OS operating system command line and ISPF toolset and use them to efficiently perform every significant security administration task Don t have a mainframe available for practice The book contains step by step videos walking you through dozens of key techniques Simply log in and register your book at [www.ibmpressbooks.com](http://www.ibmpressbooks.com) register to gain access to these videos The authors illuminate the mainframe s security model and call special attention to z OS security techniques that differ from UNIX Linux and Windows They thoroughly introduce IBM s powerful Resource Access Control Facility RACF security subsystem and demonstrate how mainframe security integrates into your enterprise wide IT security infrastructure If you re an experienced system administrator or security professional there s no faster way to extend your expertise into big iron environments Coverage includes Mainframe basics logging on allocating and editing data sets running JCL jobs using UNIX System Services and accessing documentation Creating

modifying and deleting users and groups Protecting data sets UNIX file system files databases transactions and other resources Manipulating profiles and managing permissions Configuring the mainframe to log security events filter them appropriately and create usable reports Using auditing tools to capture static configuration data and dynamic events identify weaknesses and remedy them Creating limited authority administrators how when and why [Running Mainframe z on Distributed Platforms](#) Kenneth Barrett, Stephen Norris, 2014-03-18 Running Mainframe z on Distributed Platforms is particularly suitable for a more detailed discussion Bill Ogden IBM zPDT Redbook April 2015 The authors offer very well reasoned solutions accompanied by case studies which will be useful to specialists The book is made even more useful as the System z mainframe based solutions offer an advanced systems management environment for significant segments of data within large companies Eugen Petac Computing Reviews Oct 8 2014 Should you choose to implement zPDT RDz UT or RD T in your team s arsenal you will find Barrett and Norris s insights genius and hard work illuminating as to how to rationally and economically manage the environment Scott Fagen Chief Architect System z Business CA Technologies A must read for anyone interested in successfully deploying cost efficient zPDT environments with agility in an enterprise that requires simple or complex configurations The case study based exposition of the content allows for its easy consumption and use Excellent Mahendra Durai SVP Information Technology Officer CA Running Mainframe z on Distributed Platforms reveals alternative techniques not covered by IBM for creatively adapting and enhancing multi user IBM zPDT environments so that they are more friendly stable and reusable than those envisaged by IBM The enhancement processes and methodologies taught in this book yield multiple layers for system recovery 24x7 availability and superior ease of updating and upgrading operating systems and subsystems without having to rebuild environments from scratch Most of the techniques and processes covered in this book are not new to either the mainframe or distributed platforms What is new in this book are the authors innovative methods for taking distributed environments running mainframe virtual machine VM and multiple virtual storage MVS and making them look and feel like other MVS systems The authors combined expertise involves every aspect of the implementation of IBM zPDT technology to create virtualized mainframe environments by which the mainframe operations on a z series server can be transitioned to distributed platforms All of the enhancement methods consecutively laid out in this book have been architected and developed by the authors for the CA Technologies distributed platform Barrett and Norris impart these techniques and processes to CIOs and CTOs across the mainframe and distributed fields to zPDT and RDz UT implementers and to IBM s independent software vendors and customers [The Complete Guide to CICS Transaction Gateway Volume 1 Configuration and Administration](#) Rufus Credle, Sue Bayliss, Leigh Compton, Robert Jones, Manuela Mandelli, Richard Mercadante, IBM Redbooks, 2014-08-08 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

### **Hybrid Analytics Solution using IBM DB2**

**Analytics Accelerator for z/OS V3.1** Paolo Bruni, Willie Favero, James Guo, Ravikumar Kalyanasundaram, Ruiping Li, Cristian Molaro, Andy Perkins, Theresa Tai, Dino Tonelli, IBM Redbooks, 2013-09-27 The IBM DB2 Analytics Accelerator Version 3.1 for IBM z OS simply called Accelerator in this book is a union of the IBM System z quality of service and IBM Netezza technology to accelerate complex queries in a DB2 for z OS highly secure and available environment Superior performance and scalability with rapid appliance deployment provide an ideal solution for complex analysis In this IBM Redbooks publication we provide technical decision makers with a broad understanding of the benefits of Version 3.1 of the Accelerator's major new functions We describe their installation and the advantages to existing analytical processes as measured in our test environment We also describe the IBM zEnterprise Analytics System 9700 a hybrid System z solution offering that is surrounded by a complete set of optional packs to enable customers to custom tailor the system to their unique needs

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